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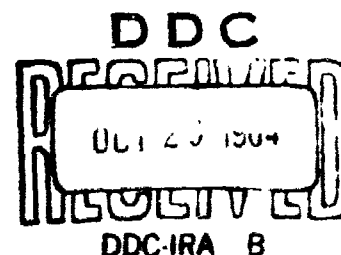
## Aerospace Research Laboratories

### MORE TABLES OF THE INCOMPLETE GAMMA-FUNCTION RATIO AND OF PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

H. LEON HARTER  
APPLIED MATHEMATICS RESEARCH LABORATORY

AUGUST 1964

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H. LEON HARTER

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Project No. 7071  
Task No. 7071-01

AEROSPACE RESEARCH LABORATORIES  
OFFICE OF AEROSPACE RESEARCH  
UNITED STATES AIR FORCE  
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

## FOREWORD

This report was prepared for the Applied Mathematics Research Laboratory, Aerospace Research Laboratories by Dr. H. Leon Harter, under Task 7071-01, Research in Mathematical Statistics and Probability, of Project 7071, Mathematical Techniques of Aeromechanics. It is a sequel to the author's book, New Tables of the Incomplete Gamma-Function Ratio and of Percentage Points of the Chi-Square and Beta Distributions, which was recently published through the Government Printing Office.

Acknowledgment is made to Mr. William H. Sammons, who suggested to the author the need for tables for additional values of the parameters.

The author wishes to thank Mr. Eugene H. Guthrie for assistance in reproducing the tables on the IBM 407 tabulator and Miss Eva Brandenburg for typing the manuscript.

## ABSTRACT

The following tables, together with brief discussions of methods of computation and uses, are included:

(1) a nine-decimal-place table of the incomplete Gamma-function ratio,  $I(u, p)$ , for  $p = -0.95(0.05)4$  and  $u$  at intervals of 0.1; and (2) a six-significant-figure table of the percentage points, corresponding to cumulative probabilities  $P = .0001, .0005, .001, .005, .01, .025, .05, .1(.1) .9, .95, .975, .99, .995, .999, .9995$ , and  $.9999$ , of the chi-square distribution with  $\nu = 0.1(0.1)10$  degrees of freedom. Both tables are accurate to within a unit in the last place.

## Table of Contents

	Page
1. Introduction	1
2. Methods of Computation	2
2.1. The Incomplete Gamma-Function Ratio	2
2.2. Percentage Points of the Chi-Square Distribution	3
2.3. Checks on Accuracy of Tables	4
3. Uses of Tables	4
3.1. The Incomplete Gamma-Function Ratio	5
3.2. Percentage Points of the Chi-Square Distribution	6
References	7

## List of Tables

	Page
Table 1. The Incomplete Gamma-Function Ratio, $I(U, P)$	9
Table 2. Percentage Points of the Chi-Square Distribution	83

## 1. Introduction

The mathematical formulations underlying the tables included in this report have been given in previous publications by the author [1], [2], and will not be repeated here. The methods of computation differ only in minor respects from those discussed in detail in [1] and [2], and hence it is necessary here only to summarize the methods and point out the differences. Some, but not all, of the uses of the tables discussed in [1] are such that only integral values of the parameters are of interest. Examples will be given of uses of the tables for non-integral parameter values.

## 2. Methods of Computation

2.1. The Incomplete Gamma-Function Ratio. The incomplete Gamma-function ratio,  $I(u, p)$ , is given by

$$(1) \quad I(u, p) = \frac{1}{\Gamma(p+1)} \int_0^{u\sqrt{p+1}} v^p e^{-v} dv.$$

The area corresponding to the integral on the right-hand side of Equation (1) was divided into strips by vertical lines erected at intervals of 0.1 in  $u$ , and the area of each strip except the first was found by numerical integration by use of a seven-point formula, with repeated halving of the interval until successive results, after the indicated division by  $\Gamma(p+1)$ , differed by no more than  $10^{-13}$ . Numerical integration could not be used to determine the area of the first strip, which was computed by expanding  $e^{-v}$  [ in the integrand on the right-hand side of Equation (1) ] in series, integrating term by term, evaluating between the limits 0 and  $0.1\sqrt{p+1}$ , and performing the indicated division by  $\Gamma(p+1)$ . For a given value of  $p$ , the value of  $I(u, p)$  for  $u = 0.1 k$  ( $k$  a non-negative integer) is the sum of the areas of the first  $k$  strips. Since  $k < 10^3$  for all values given in the table, the truncation error is certainly less than  $10^{-10}$ . The computations were performed in double precision on the IBM 7094 computer with FORTRAN programming, and the results were rounded to nine decimal places and punched on IBM cards. This gives rise to a rounding error not exceeding  $5 \times 10^{-10}$ . Since the sum of the truncation error and the rounding error is less than  $10^{-9}$ , the results are accurate to within a



unit in the ninth decimal place. The results are shown in Table 1, which was reproduced from a table printed from the cards by use of the IBM 407 tabulator. Since the tabulator does not have lower-case letters,  $I(u, p)$  was printed as  $I(U, P)$ .

2.2. Percentage Points of the Chi-Square Distribution. The author [1], [2] has discussed three methods of computing percentage points of the chi-square distribution. These may be summarized as follows: (1) interpolating inversely in Table 1 to find the percentage points of  $u$  for  $p = v/2 - 1$ , then multiplying by  $\sqrt{2v}$ ; (2) subtabulating in the table of  $\log I'(u, p)$ , where  $I'(u, p) = I(u, p) / u^{p+1}$ , given by Karl Pearson [4], then taking antilogarithms and multiplying by  $u^{p+1}$ , and finally interpolating inversely and multiplying by  $\sqrt{2v}$ ; and (3) iterating on the basis of a series expansion suggested by Pearson and Hartley [3], obtaining successively  $\chi_0^2 = 2 \{ P \Gamma(v/2 + 1) \}^{2/v}$ ,  $\chi_1^2 = \chi_0^2 \{ 1 - [v/(v+2)] \chi_0^2 / 2 \}^{-2/v}$ ,  $\dots$ ,  $\chi_k^2 = \chi_{k-1}^2 \{ 1 - [v/(v+2)] \chi_{k-1}^2 / 2 \cdot 1! + \dots + (-1)^k [v/(v+2k)] (\chi_{k-1}^2)^{k/2} \cdot k! + \dots \}^{-2/v}$ ,  $\dots$ . Method 1 attains its greatest accuracy for large values of  $P$  (cumulative probability) and  $v$  (degrees of freedom); method 3, for small values of  $P$  and  $v$ ; and method 2, for intermediate values of  $P$  and  $v$ . Since the sets of values of  $P$  and  $v$  for which methods 1 and 3 provide results which are accurate to within a unit in the sixth significant figure leave no gaps, but actually overlap, method 2 is not really needed, but results obtained by this method serve as a check on

those obtained by the other methods. All of the computations were performed on the IBM 7094 computer with FORTRAN programming. Single precision was adequate for method 2; for methods 1 and 3 double precision was used. The results were punched on IBM cards, and Table 2 was reproduced from a table printed from the cards by use of the IBM 407 tabulator. The values given in Table 2 are those obtained by method 1, with the following exceptions, which were obtained by method 3: (1)  $\nu = 0.1(0.1)0.5$ ,  $P \leq .9$ ; (2)  $\nu = 0.6(0.1)1.0$ ,  $P \leq .8$ ; (3)  $\nu = 1.1(0.1)1.5$ ,  $P \leq .6$ ; (4)  $\nu = 1.6(0.1)2.5$ ,  $P \leq .3$ ; (5)  $\nu = 2.6(0.1)3.5$ ,  $P \leq .2$ ; (6)  $\nu = 3.6(0.1)4.0$ ,  $P \leq .1$ ; (7)  $\nu = 4.1(0.1)5.0$ ,  $P \leq .05$ ; (8)  $\nu = 5.1(0.5)5.5$ ,  $P \leq .025$ ; (9)  $\nu = 5.6(0.1)6.5$ ,  $P \leq .01$ ; (10)  $\nu = 6.6(0.1)7.0$ ,  $P \leq .005$ ; (11)  $\nu = 7.1(0.1)9.0$ ,  $P \leq .001$ ; and (12)  $\nu = 9.1(0.1)10.0$ ,  $P \leq .0005$ . The tabular values are printed in E-format, in which the number following the E is the power of 10 by which the number preceding the E must be multiplied.

2.3. Checks on Accuracy of Tables. In addition to the internal checks already mentioned, both tables were differenced on the IBM 7094 computer to ascertain that no gross errors have been introduced and to verify that the results are accurate to within a unit in the last place as stated. Input to the difference programs was from the cards used to print the tables on the IBM 407 tabulator.

### 3. Uses of Tables

3.1. The Incomplete Gamma-Function Ratio. The author [1] has given

examples of uses of tables of the incomplete Gamma-function ratio based on its relation to the cumulative probabilities of the Pearson Type III and Poisson distributions. Only the former is of interest here, since the latter is a discrete distribution, the number of occurrences of an event being an integer, so that the tables of  $I(u, p)$  for integral values of  $p$  given in [1] are all that is required.

Let the random variable  $t$  have a Pearson Type III distribution with mean  $\mu = 0$ , variance  $\sigma^2 = 1$ , and skewness  $\alpha_3$ . The following relation holds:

$$(2) \quad \Pr[t \leq x] = I(2\alpha_3^{-1} + x, 4\alpha_3^{-2} - 1).$$

If  $\alpha_3^2 > 0.8$ , so that  $4\alpha_3^{-2} - 1 < 4$ , Table 1 is useful in evaluating the probability given by Equation (2). It is especially useful for  $|\alpha_3| > 1.1$ , which is the largest value included in the tables computed by Salvosa [5]. Single or double interpolation will be required unless  $u = 2\alpha_3^{-1} + x$  is a multiple of 0.1 and/or  $p = 4\alpha_3^{-2} - 1$  is a multiple of 0.05. If interpolation in  $p$  is required, it can be performed much more accurately than in Table 1 of [1], where the interval is ten times as large.

Example 3.1.1. Let  $t$  be a random variable having a Pearson Type III distribution with mean  $\mu = 0$ , variance  $\sigma^2 = 1$ , and skewness  $\alpha_3 = 2.5$ . Find the probability that  $t \leq 1$ . --From Equation (2) and Table 1 we find

$$\Pr[t \leq 1] = I(1.8, .36) = .873750665,$$

the results of 7-point and 8-point Lagrangian interpolation agreeing to 9 decimal places.

3.2. Percentage Points of the Chi-Square Distribution. The author [1] has enumerated four populations for which ratios of specified functions of sample estimators and population parameters have chi-square distributions. A table of percentage points of the chi-square distribution is needed in testing hypotheses about and setting confidence bounds on these parameters. For three of the four populations mentioned (normal, exponential, and Weibull), the table of percentage points for integral values of  $\nu$  (degrees of freedom) given in [1] will suffice. For the Gamma population, however, a table of percentage points for non-integral values of  $\nu$ , such as Table 2 of the present report, will be useful. For the Gamma population with location parameter 0, scale parameter  $\theta$ , and shape parameter  $\alpha$ , the ratio  $2n\alpha\bar{\theta}/\theta$ , where  $\bar{\theta}$  is an unbiased estimator of  $\theta$  based on a sample of size  $n$  and is defined by  $\bar{\theta} = \sum_{i=1}^n x_i / n\alpha$ , has a  $\chi^2$  distribution with  $2n\alpha$  degrees of freedom. When  $2n\alpha \leq 10$ , Table 2 can be used to find the percentage points required in testing and estimation. If  $2n\alpha$  is not a multiple of 0.1, interpolation will be necessary, but it can be performed much more accurately in Table 2 of this report than in Table 2 of [1], where the interval in  $\nu$  is ten times as large.

Example 3.2.1. For a sample of size 6 from a Gamma population with shape parameter  $\alpha = 0.8$ , the unbiased estimator  $\bar{\theta}$  of the scale parameter  $\theta$ , as defined above, is 92.5. Determine a 99% upper confidence bound on  $\theta$ . -- The required bound is given by  $9.6\bar{\theta}/\chi^2_{.01, 9.6} = 9.6(92.5)/1.144 = 776$ .

## REFERENCES

- [1] Harter, H. Leon, New Tables of the Incomplete Gamma-Function Ratio and of Percentage Points of the Chi-Square and Beta Distributions, U. S. Government Printing Office, Washington, 1964.
- [2] Harter, H. Leon, "A new table of percentage points of the chi-square distribution," Biometrika, Vol. 51 (1964), pp.
- [3] Pearson, E. S. and Hartley, H. O., Biometrika Tables for Statisticians, Volume I, Cambridge University Press for the Biometrika Trustees, Cambridge, 1954.
- [4] Pearson, Karl, Tables of the Incomplete  $\Gamma$ -Function, H. M. Stationery Office, London, 1922.
- [5] Salvosa, Luis R., "Tables of Pearson's Type III function," Annals of Mathematical Statistics, Vol. 1 (1930), pp. 191-198 + pp. 1-187 of tables (appended).

TABLE 1

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U,-.95)$	$I(U+5,-.95)$	$I(U+10,-.95)$	$I(U+15,-.95)$	$I(U+20,-.95)$	$I(U+25,-.95)$
0.0	.000000000	.990472426	.998080098	.999539424	.999880374	.999967457
0.1	.048547871	.990803257	.998136345	.999551953	.999883493	.999968283
0.2	.877551365	.991120801	.998190834	.999564129	.999886528	.999969087
0.3	.894595038	.991425700	.998243623	.999575961	.999889483	.999969870
0.4	.906624423	.991718561	.998294772	.999587460	.999892359	.999970633
0.5	.915865002	.991999950	.998344334	.999598636	.999895158	.999971375
0.6	.923322822	.992270405	.998392364	.999609498	.999897883	.999972101
0.7	.929540660	.992530430	.998438913	.999620055	.999900535	.999972806
0.8	.934845515	.992780502	.998484030	.999630316	.999903117	.999973494
0.9	.939449969	.993021071	.998527763	.999640290	.999905630	.999974164
1.0	.943500158	.993252563	.998570158	.999649986	.999908076	.999974816
1.1	.947100937	.993475379	.998611259	.999659411	.999910458	.999975452
1.2	.950330138	.993689901	.998651109	.999668574	.999912776	.999976072
1.3	.953247150	.993896489	.998689748	.999677481	.999915033	.999976675
1.4	.955898330	.994095485	.998727217	.999686141	.999917230	.999977263
1.5	.958320570	.994287214	.998763553	.999694560	.999919369	.999977836
1.6	.960543712	.994471982	.998798793	.999702746	.999921452	.999978395
1.7	.962592241	.994650082	.998832973	.999710706	.999923479	.999978939
1.8	.964486494	.994821792	.998866126	.999718445	.999925453	.999979469
1.9	.966243552	.994987375	.998898287	.999725970	.999927375	.999979985
2.0	.967877896	.995147083	.998929486	.999733288	.999929247	.999980489
2.1	.969401909	.995301153	.998959755	.999740404	.999931069	.999980980
2.2	.970826263	.995449814	.998989123	.999747324	.999932843	.999981458
2.3	.972160222	.995593282	.999017619	.999754054	.999934571	.999981924
2.4	.973411872	.995731764	.999045271	.999760599	.999936253	.999982378
2.5	.974588319	.995865455	.999072104	.999766964	.999937891	.999982820
2.6	.975695836	.995994545	.999098146	.999773155	.999939486	.999983251
2.7	.976739989	.996119212	.999123420	.999779177	.999941039	.999983671
2.8	.977725737	.996239628	.999147951	.999785033	.999942552	.999984081
2.9	.978657519	.996355955	.999171763	.999790730	.999944025	.999984480
3.0	.979539321	.996468350	.999194877	.999796271	.999945459	.999984869
3.1	.980374736	.996576963	.999217315	.999801662	.999946856	.999985248
3.2	.981167016	.996681935	.999239099	.999806905	.999948216	.999985617
3.3	.981919106	.996783403	.999260248	.999812006	.999949541	.999985977
3.4	.982633690	.996881499	.999280783	.999816968	.999950831	.999986328
3.5	.983313213	.996976346	.999300721	.999821796	.999952088	.999986670
3.6	.983959912	.997068065	.999320082	.999826492	.999953312	.999987003
3.7	.984575837	.997156771	.999338883	.999831062	.999954504	.999987328
3.8	.985162870	.997242573	.999357141	.999835507	.999955665	.999987644
3.9	.985722747	.997325577	.999374873	.999839833	.999956796	.999987953
4.0	.986257065	.997405884	.999392095	.999844041	.999957898	.999988254
4.1	.986767302	.997483590	.999408822	.999848136	.999958970	.999988547
4.2	.987254827	.997558789	.999425069	.999852121	.999960015	.999988832
4.3	.987720906	.997631569	.999440851	.999855998	.999961033	.999989111
4.4	.988166719	.997702017	.999456182	.999859771	.999962025	.999989382
4.5	.988593360	.997770214	.999471075	.999863442	.999962990	.999989647
4.6	.989001850	.997836239	.999485544	.999867015	.999963931	.999989905
4.7	.989393142	.997900169	.999499601	.999870492	.999964848	.999990156
4.8	.989768123	.997962076	.999513259	.999873876	.999965740	.999990401
4.9	.990127625	.998022030	.999526529	.999877169	.999966610	.999990640

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(1+30, -.95)$	$\Gamma(1+35, -.95)$	$\Gamma(1+40, -.95)$	$\Gamma(1+45, -.95)$	$\Gamma(1+50, -.95)$	$\Gamma(1+55, -.95)$
0.0	.999990873	.999997384	.999999238	.999999775	.999999933	.999999980
0.1	.999991100	.999997448	.999999256	.999999781	.999999935	.999999980
0.2	.999991321	.999997511	.999999274	.999999786	.999999936	.999999981
0.3	.999991537	.999997572	.999999292	.999999791	.999999938	.999999981
0.4	.999991747	.999997631	.999999309	.999999795	.999999939	.999999982
0.5	.999991952	.999997689	.999999326	.999999801	.999999941	.999999982
0.6	.999992152	.999997745	.999999342	.999999806	.999999942	.999999983
0.7	.999992347	.999997801	.999999358	.999999810	.999999943	.999999983
0.8	.999992537	.999997855	.999999374	.999999815	.999999945	.999999983
0.9	.999992722	.999997907	.999999389	.999999819	.999999946	.999999984
1.0	.999992902	.999997958	.999999404	.999999824	.999999947	.999999984
1.1	.999993078	.999998008	.999999418	.999999828	.999999949	.999999985
1.2	.999993250	.999998057	.999999432	.999999832	.999999950	.999999985
1.3	.999993417	.999998104	.999999446	.999999836	.999999951	.999999985
1.4	.999993580	.999998151	.999999459	.999999840	.999999952	.999999986
1.5	.999993739	.999998196	.999999472	.999999844	.999999953	.999999986
1.6	.999993894	.999998240	.999999485	.999999848	.999999954	.999999986
1.7	.999994045	.999998283	.999999497	.999999851	.999999955	.999999987
1.8	.999994192	.999998325	.999999510	.999999855	.999999957	.999999987
1.9	.999994336	.999998366	.999999521	.999999858	.999999958	.999999987
2.0	.999994476	.999998405	.999999533	.999999862	.999999959	.999999988
2.1	.999994612	.999998444	.999999544	.999999865	.999999960	.999999988
2.2	.999994745	.999998482	.999999555	.999999868	.999999961	.999999988
2.3	.999994875	.999998519	.999999566	.999999871	.999999961	.999999988
2.4	.999995002	.999998555	.999999576	.999999874	.999999962	.999999989
2.5	.999995125	.999998591	.999999587	.999999877	.999999963	.999999989
2.6	.999995245	.999998625	.999999597	.999999880	.999999964	.999999989
2.7	.999995363	.999998658	.999999606	.999999883	.999999965	.999999989
2.8	.999995477	.999998691	.999999616	.999999886	.999999966	.999999990
2.9	.999995588	.999998723	.999999625	.999999889	.999999967	.999999990
3.0	.999995697	.999998754	.999999634	.999999891	.999999967	.999999990
3.1	.999995803	.999998784	.999999643	.999999894	.999999968	.999999990
3.2	.999995907	.999998814	.999999652	.999999897	.999999969	.999999991
3.3	.999996007	.999998843	.999999660	.999999899	.999999970	.999999991
3.4	.999996106	.999998871	.999999668	.999999901	.999999970	.999999991
3.5	.999996202	.999998898	.999999676	.999999904	.999999971	.999999991
3.6	.999996295	.999998925	.999999684	.999999906	.999999972	.999999991
3.7	.999996386	.999998951	.999999692	.999999908	.999999972	.999999992
3.8	.999996475	.999998977	.999999699	.999999910	.999999973	.999999992
3.9	.999996562	.999999002	.999999706	.999999913	.999999974	.999999992
4.0	.999996646	.999999026	.999999713	.999999915	.999999974	.999999992
4.1	.999996729	.999999049	.999999720	.999999917	.999999975	.999999992
4.2	.999996809	.999999073	.999999727	.999999919	.999999976	.999999993
4.3	.999996887	.999999095	.999999733	.999999921	.999999976	.999999993
4.4	.999996964	.999999117	.999999740	.999999923	.999999977	.999999993
4.5	.999997038	.999999138	.999999746	.999999924	.999999977	.999999993
4.6	.999997111	.999999159	.999999752	.999999926	.999999978	.999999993
4.7	.999997182	.999999180	.999999758	.999999928	.999999978	.999999993
4.8	.999997251	.999999200	.999999764	.999999930	.999999979	.999999994
4.9	.999997318	.999999219	.999999770	.999999931	.999999979	.999999994

TABLE 1 (CONTINUED)  
THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$

U	$\Gamma(1+.60, -.95)$	$\Gamma(1+.65, -.95)$	$\Gamma(1+.70, -.95)$	$\Gamma(U, -.9)$	$\Gamma(U+.5, -.9)$	$\Gamma(U+1.0, -.9)$
0.0	.999999994	.999999998	.999999999	.000000000	.989895517	.998719597
0.1	.999999994	.999999998	.999999999	.742026329	.990337292	.998768620
0.2	.999999994	.999999998	.999999999	.793047341	.990757827	.998815600
0.3	.999999994	.999999998	.999999999	.823571990	.991158280	.998860717
0.4	.999999994	.999999998	.999999999	.845288626	.991539733	.998904050
0.5	.999999995	.999999998	.999999999	.862028443	.991903203	.998945672
0.6	.999999995	.999999998	1.000000000	.875550116	.992249644	.998985655
0.7	.999999995	.999999998		.886813787	.992579947	.999024065
0.8	.999999995	.999999998		.896403574	.992894955	.999060968
0.9	.999999995	.999999999		.904702368	.993195458	.999096425
1.0	.999999995	.999999999		.911975287	.993482198	.999130496
1.1	.999999995	.999999999		.918413768	.993755877	.999163238
1.2	.999999995	.999999999		.924160709	.994017152	.999194704
1.3	.999999996	.999999999		.929325694	.994266646	.999224947
1.4	.999999996	.999999999		.933994649	.994504944	.999254016
1.5	.999999996	.999999999		.938236226	.994732601	.999281950
1.6	.999999996	.999999999		.942106159	.994950138	.999308820
1.7	.999999996	.999999999		.945650321	.995158048	.999334645
1.8	.999999996	.999999999		.948906927	.995356799	.999359474
1.9	.999999996	.999999999		.951908144	.995546830	.999383347
2.0	.999999996	.999999999		.954681307	.995728561	.999406303
2.1	.999999996	.999999999		.957249834	.995902384	.999428378
2.2	.999999996	.999999999		.959633939	.996068676	.999449607
2.3	.999999996	.999999999		.961851186	.996227790	.999470025
2.4	.999999997	.999999999		.963916931	.996380061	.999489662
2.5	.999999997	.999999999		.965844671	.996525810	.999508551
2.6	.999999997	.999999999		.967646329	.996665336	.999526720
2.7	.999999997	.999999999		.969332489	.996798928	.999544199
2.8	.999999997	.999999999		.970912581	.996926858	.999561014
2.9	.999999997	.999999999		.972395044	.997049383	.999577191
3.0	.999999997	.999999999		.973787454	.997166750	.999592756
3.1	.999999997	.999999999		.975096635	.997279190	.999607732
3.2	.999999997	.999999999		.976328757	.997386927	.999622143
3.3	.999999997	.999999999		.977489407	.997490171	.999636010
3.4	.999999997	.999999999		.978583666	.997589122	.999649355
3.5	.999999997	.999999999		.979616158	.997683972	.999662198
3.6	.999999997	.999999999		.980591109	.997774900	.999674559
3.7	.999999997	.999999999		.981512384	.997862082	.999686456
3.8	.999999998	.999999999		.982383525	.997945680	.999697907
3.9	.999999998	.999999999		.983207790	.998025951	.999708929
4.0	.999999998	.999999999		.983988175	.998102746	.999719539
4.1	.999999998	.999999999		.984727443	.998176505	.999729754
4.2	.999999998	.999999999		.985428142	.998247266	.999739587
4.3	.999999998	.999999999		.986092637	.998315156	.999749054
4.4	.999999998	.999999999		.986723109	.998380299	.999758169
4.5	.999999998	.999999999		.987321585	.998442812	.999766945
4.6	.999999998	.999999999		.987889949	.998502810	.999775395
4.7	.999999998	.999999999		.988429949	.998560397	.999783532
4.8	.999999998	.999999999		.988943215	.998615676	.999791368
4.9	.999999998	.999999999		.989431266	.998668745	.999798913



TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+15, -.9)$	$\Gamma(U+20, -.9)$	$\Gamma(U+25, -.9)$	$\Gamma(U+30, -.9)$	$\Gamma(U+35, -.9)$	$\Gamma(U+40, -.9)$
0.0	.999806180	.999968203	.999994536	.999999032	.999999825	.999999968
0.1	.999813178	.999969316	.999994723	.999999065	.999999831	.999999969
0.2	.999819919	.999970389	.999994904	.999999096	.999999836	.999999970
0.3	.999826410	.999971423	.999995078	.999999127	.999999842	.999999971
0.4	.999832663	.999972421	.999995247	.999999156	.999999847	.999999972
0.5	.999838686	.999973384	.999995409	.999999185	.999999852	.999999973
0.6	.999844488	.999974313	.999995567	.999999212	.999999857	.999999974
0.7	.999850077	.999975209	.999995718	.999999239	.999999862	.999999975
0.8	.999855461	.999976073	.999995865	.999999264	.999999866	.999999975
0.9	.999860647	.999976907	.999996006	.999999289	.999999871	.999999976
1.0	.999865644	.999977711	.999996142	.999999313	.999999875	.999999977
1.1	.999870458	.999978487	.999996274	.999999336	.999999879	.999999978
1.2	.999875096	.999979236	.999996401	.999999359	.999999883	.999999978
1.3	.999879565	.999979958	.999996524	.999999380	.999999887	.999999979
1.4	.999883871	.999980655	.999996643	.999999401	.999999891	.999999980
1.5	.999888020	.999981327	.999996757	.999999421	.999999895	.999999981
1.6	.999892019	.999981976	.999996868	.999999441	.999999898	.999999981
1.7	.999895871	.999982601	.999996975	.999999460	.999999902	.999999982
1.8	.999899584	.999983205	.999997078	.999999478	.999999905	.999999982
1.9	.999903162	.999983788	.999997178	.999999495	.999999908	.999999983
2.0	.999906610	.999984350	.999997274	.999999512	.999999911	.999999984
2.1	.999909933	.999984893	.999997367	.999999529	.999999914	.999999984
2.2	.999913136	.999985416	.999997456	.999999545	.999999917	.999999985
2.3	.999916223	.999985921	.999997543	.999999560	.999999920	.999999985
2.4	.999919198	.999986408	.999997626	.999999575	.999999922	.999999986
2.5	.999922066	.999986879	.999997707	.999999589	.999999925	.999999986
2.6	.999924831	.999987333	.999997785	.999999603	.999999927	.999999987
2.7	.999927495	.999987771	.999997860	.999999616	.999999930	.999999987
2.8	.999930064	.999988193	.999997933	.999999629	.999999932	.999999987
2.9	.999932540	.999988601	.999997903	.999999642	.999999934	.999999988
3.0	.999934927	.999988995	.999998071	.999999654	.999999937	.999999988
3.1	.999937228	.999989375	.999998137	.999999665	.999999939	.999999989
3.2	.999939446	.999989741	.999998200	.999999676	.999999941	.999999989
3.3	.999941585	.999990095	.999998261	.999999687	.999999943	.999999989
3.4	.999943647	.999990437	.999998320	.999999698	.999999945	.999999990
3.5	.999945635	.999990766	.999998377	.999999708	.999999946	.999999990
3.6	.999947552	.999991085	.999998432	.999999718	.999999948	.999999990
3.7	.999949400	.999991392	.999998485	.999999727	.999999950	.999999991
3.8	.999951182	.999991688	.999998537	.999999736	.999999952	.999999991
3.9	.999952901	.999991974	.999998586	.999999745	.999999953	.999999991
4.0	.999954558	.999992250	.999998634	.999999754	.999999955	.999999992
4.1	.999956156	.999992517	.999998680	.999999762	.999999956	.999999992
4.2	.999957696	.999992774	.999998725	.999999770	.999999958	.999999992
4.3	.999959182	.999993022	.999998768	.999999778	.999999959	.999999992
4.4	.999960615	.999993262	.999998810	.999999785	.999999961	.999999993
4.5	.999961997	.999993494	.999998850	.999999792	.999999962	.999999993
4.6	.999963330	.999993717	.999998889	.999999799	.999999963	.999999993
4.7	.999964615	.999993933	.999998927	.999999806	.999999964	.999999993
4.8	.999965855	.999994141	.999998963	.999999812	.999999966	.999999994
4.9	.999967050	.999994342	.999998998	.999999819	.999999967	.999999994

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+45,-.9)$	$\Gamma(U+50,-.9)$	$\Gamma(U,-.85)$	$\Gamma(U+5,-.85)$	$\Gamma(U+10,-.85)$	$\Gamma(U+15,-.85)$
0.0	.999999994	.999999999	.000000000	.990078305	.999106988	.999904261
0.1	.999999994	.999999999	.654831096	.990576322	.999146998	.999908354
0.2	.999999994	.999999999	.723003979	.991047499	.999185166	.999912270
0.3	.999999995	.999999999	.764617803	.991493427	.999221579	.999916016
0.4	.999999995	.999999999	.794525388	.991915587	.999256321	.999919600
0.5	.999999995	.999999999	.817709013	.992315367	.999289471	.999923029
0.6	.999999995	.999999999	.836492077	.992694060	.999321104	.999926309
0.7	.999999995	.999999999	.852158720	.993052879	.999351293	.999929448
0.8	.999999995	.999999999	.865498147	.993392956	.999380105	.999932451
0.9	.999999996	.999999999	.877032198	.993715354	.999407605	.999935325
1.0	.999999996	.999999999	.887124941	.994021067	.999433855	.999938074
1.1	.999999996	.999999999	.896041020	.994311028	.999458914	.999940705
1.2	.999999996	.999999999	.903979157	.994586114	.999482836	.999943223
1.3	.999999996	.999999999	.911092549	.994847146	.999505676	.999945633
1.4	.999999996	.999999999	.917501889	.995094896	.999527483	.999947939
1.5	.999999996	.999999999	.923304014	.995330089	.999548306	.999950145
1.6	.999999996	.999999999	.928577838	.995553407	.999568191	.999952258
1.7	.999999997	.999999999	.933388529	.995765492	.999587180	.999954279
1.8	.999999997	.999999999	.937790534	.995966948	.999605316	.999956214
1.9	.999999997	.999999999	.941829809	.996158343	.999622638	.999958066
2.0	.999999997	.999999999	.945545487	.996340212	.999639183	.999959839
2.1	.999999997	.999999999	.948971164	.996513061	.999654987	.999961535
2.2	.999999997	.999999999	.952135886	.996677364	.999670084	.999963160
2.3	.999999997	.999999999	.955064925	.996833570	.999684507	.999964714
2.4	.999999997	.999999999	.957780399	.996982102	.999698286	.999966203
2.5	.999999997	1.000000000	.960301763	.997123360	.999711452	.999967628
2.6	.999999997		.962646219	.997257719	.999724031	.999968992
2.7	.999999998		.964829034	.997385537	.999730051	.999970298
2.8	.999999998		.966863819	.997507149	.999747538	.999971548
2.9	.999999998		.968762749	.997622873	.999758514	.999972745
3.0	.999999998		.970536752	.997733009	.999769005	.999973892
3.1	.999999998		.972195669	.997837841	.999779031	.999974989
3.2	.999999998		.973748386	.997937638	.999788614	.999976040
3.3	.999999998		.975202948	.998032654	.999797774	.999977046
3.4	.999999998		.976566659	.998123128	.999806529	.999978010
3.5	.999999998		.977846163	.998209290	.999814899	.999978932
3.6	.999999998		.979047517	.998291353	.999822900	.999979816
3.7	.999999998		.980176257	.998369522	.999830550	.999980662
3.8	.999999998		.981237450	.998443990	.999837863	.999981472
3.9	.999999998		.982235741	.998514941	.999844855	.999982248
4.0	.999999998		.983175398	.998582547	.999851540	.999982991
4.1	.999999998		.984060347	.998646974	.999857933	.999983703
4.2	.999999999		.984894206	.998708377	.999864046	.999984384
4.3	.999999999		.985680312	.998766904	.999869891	.999985037
4.4	.999999999		.986421750	.998822695	.999875481	.999985662
4.5	.999999999		.987121371	.998875884	.999880827	.999986261
4.6	.999999999		.987781818	.998926596	.999885940	.999986835
4.7	.999999999		.988405540	.998974952	.999890830	.999987384
4.8	.999999999		.988994811	.999021064	.999895508	.999987910
4.9	.999999999		.989551745	.999065042	.999899981	.999988415

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ U  $\Gamma(U+20, -.85)$   $\Gamma(U+25, -.85)$   $\Gamma(U+30, -.85)$   $\Gamma(U+35, -.85)$   $\Gamma(U+40, -.85)$   $\Gamma(U+45, -.85)$ 

0.0	.999988897	.999998653	.999999832	.999999979	.999999997	
0.1	.999989360	.999998708	.999999838	.999999979	.999999997	
0.2	.999989803	.999998761	.999999845	.999999980	.999999997	
0.3	.999990228	.999998812	.999999851	.999999981	.999999998	
0.4	.999990634	.999998860	.999999857	.999999982	.999999998	
0.5	.999991024	.999998907	.999999863	.999999983	.999999998	
0.6	.999991397	.999998952	.999999869	.999999983	.999999998	
0.7	.999991755	.999998995	.999999874	.999999984	.999999998	
0.8	.999992097	.999999036	.999999879	.999999985	.999999998	
0.9	.999992426	.999999075	.999999884	.999999985	.999999998	
1.0	.999992740	.999999113	.999999889	.999999986	.999999998	
1.1	.999993041	.999999149	.999999893	.999999986	.999999998	
1.2	.999993330	.999999184	.999999897	.999999987	.999999998	
1.3	.999993607	.999999217	.999999902	.999999987	.999999998	
1.4	.999993872	.999999249	.999999906	.999999988	.999999998	
1.5	.999994126	.999999280	.999999909	.999999988	.999999998	
1.6	.999994369	.999999309	.999999913	.999999989	.999999999	
1.7	.999994602	.999999338	.999999917	.999999989	.999999999	
1.8	.999994826	.999999365	.999999920	.999999990	.999999999	
1.9	.999995040	.999999391	.999999923	.999999990	.999999999	
2.0	.999995245	.999999415	.999999926	.999999991	.999999999	
2.1	.999995442	.999999439	.999999929	.999999991	.999999999	
2.2	.999995630	.999999462	.999999932	.999999991	.999999999	
2.3	.999995811	.999999484	.999999935	.999999992	.999999999	
2.4	.999995984	.999999505	.999999937	.999999992	.999999999	
2.5	.999996150	.999999525	.999999940	.999999992	.999999999	
2.6	.999996309	.999999545	.999999942	.999999993	.999999999	
2.7	.999996461	.999999563	.999999945	.999999993	.999999999	
2.8	.999996607	.999999581	.999999947	.999999993	.999999999	
2.9	.999996747	.999999599	.999999949	.999999993	.999999999	
3.0	.999996881	.999999614	.999999951	.999999994	.999999999	
3.1	.999997010	.999999630	.999999953	.999999994	.999999999	
3.2	.999997133	.999999645	.999999955	.999999994	.999999999	
3.3	.999997251	.999999660	.999999957	.999999994	.999999999	
3.4	.999997364	.999999673	.999999959	.999999995	.999999999	
3.5	.999997473	.999999687	.999999960	.999999995	.999999999	
3.6	.999997577	.999999699	.999999962	.999999995	.999999999	
3.7	.999997677	.999999712	.999999963	.999999995	.999999999	
3.8	.999997772	.999999723	.999999965	.999999995	.999999999	
3.9	.999997864	.999999735	.999999966	.999999996	.999999999	
4.0	.999997952	.999999745	.999999968	.999999996	.999999999	
4.1	.999998036	.999999755	.999999969	.999999996	.999999999	
4.2	.999998117	.999999765	.999999970	.999999996	.999999999	
4.3	.999998194	.999999775	.999999971	.999999996	.999999999	
4.4	.999998269	.999999784	.999999973	.999999996	1.000000000	
4.5	.999998339	.999999793	.999999974	.999999997		
4.6	.999998407	.999999801	.999999975	.999999997		
4.7	.999998473	.999999809	.999999976	.999999997		
4.8	.999998535	.999999817	.999999977	.999999997		
4.9	.999998595	.999999825	.999999978	.999999997		

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, .8)$	$\Gamma(U+5, .8)$	$\Gamma(U+10, .8)$	$\Gamma(U+15, .8)$	$\Gamma(U+20, .8)$	$\Gamma(U+25, .8)$
0.0	.000000000	.990422529	.999348768	.999947564	.999995447	.999999587
0.1	.580725242	.990953201	.999281471	.999950094	.999995662	.999999606
0.2	.662248115	.991462764	.999412498	.999952501	.999995866	.999999625
0.3	.713076013	.991923184	.999441935	.999954791	.999996061	.999999642
0.4	.750018966	.992366290	.999469868	.999956969	.999996247	.999999659
0.5	.778849895	.992783783	.999496374	.999959041	.999996424	.999999675
0.6	.802394844	.993177252	.999521528	.999961012	.999996593	.999999690
0.7	.821915369	.993548173	.999545401	.999962887	.999996753	.999999704
0.8	.838632733	.993897929	.999568051	.999964671	.999996906	.999999718
0.9	.853031662	.994227805	.999589560	.999966369	.999997052	.999999731
1.0	.865738501	.994539004	.999609986	.999967984	.999997191	.999999744
1.1	.876899978	.994832651	.999629369	.999969521	.999997323	.999999755
1.2	.886822967	.995109796	.999647770	.999970983	.999997449	.999999767
1.3	.895628842	.995371421	.999665242	.999972374	.999997569	.999999778
1.4	.903679127	.995618447	.999681632	.999973698	.999997683	.999999788
1.5	.910885938	.995851734	.999697585	.999974958	.999997792	.999999798
1.6	.917419179	.996072089	.999712545	.999976157	.999997896	.999999807
1.7	.923361646	.996280268	.999726752	.999977298	.999997995	.999999816
1.8	.928782731	.996476978	.999740245	.999978384	.999998089	.999999825
1.9	.933741159	.996662885	.999753061	.999979418	.999998178	.999999833
2.0	.938287063	.996838611	.999765234	.999980402	.999998264	.999999841
2.1	.942463567	.997004743	.999776798	.999981338	.999998345	.999999848
2.2	.946308018	.997161828	.999787783	.999982229	.999998423	.999999855
2.3	.949852962	.997310382	.999798219	.999983077	.999998497	.999999862
2.4	.953126912	.997450692	.999808133	.999983885	.999998567	.999999868
2.5	.956154977	.997583810	.999817553	.999984653	.999998635	.999999874
2.6	.958959366	.997709567	.999826504	.999985385	.999998699	.999999880
2.7	.961559805	.997828565	.999835009	.999986081	.999998760	.999999886
2.8	.963973876	.997941182	.999843091	.999986744	.999998818	.999999891
2.9	.966217318	.998047774	.999850771	.999987375	.999998873	.999999896
3.0	.968304243	.998148677	.999858070	.999987976	.999998926	.999999901
3.1	.970247360	.998244207	.999865007	.999988548	.999998976	.999999905
3.2	.972058138	.998334661	.999871600	.999989092	.999999024	.999999910
3.3	.973746951	.998420319	.999877867	.999989611	.999999070	.999999914
3.4	.975323211	.998501445	.999883824	.999990104	.999999113	.999999918
3.5	.976795467	.998578285	.999889486	.999990574	.999999155	.999999922
3.6	.978171509	.998651081	.999894868	.999991022	.999999194	.999999925
3.7	.979458442	.998720046	.999899985	.999991448	.999999232	.999999929
3.8	.980662758	.998785391	.999904850	.999991853	.999999268	.999999932
3.9	.981790405	.998847312	.999909475	.999992240	.999999302	.999999935
4.0	.982846833	.998905995	.999913873	.999992607	.999999334	.999999938
4.1	.983837049	.998961616	.999918054	.999992958	.999999365	.999999941
4.2	.984765655	.999014328	.999922029	.999993291	.999999395	.999999944
4.3	.985636890	.999064318	.999925810	.999993609	.999999423	.999999946
4.4	.986454661	.999111702	.999929405	.999993911	.999999450	.999999949
4.5	.987222572	.999156630	.999932823	.999994199	.999999476	.999999951
4.6	.987943957	.999199233	.999936074	.999994474	.999999500	.999999953
4.7	.988621895	.999239634	.999939166	.999994735	.999999524	.999999956
4.8	.989259235	.999277951	.999942107	.999994984	.999999546	.999999958
4.9	.989858623	.999314294	.999944904	.999995221	.999999567	.999999960

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U, P)$ 

U	$I(U+30, -.8)$	$I(U+35, -.8)$	$I(U, -.75)$	$I(U+5, -.75)$	$I(U+10, -.75)$	$I(U+15, -.75)$
0.0	.999999961	.999999996	.000000000	.990786252	.999507975	.999969118
0.1	.999999963	.999999997	.516555321	.991337542	.999534981	.999970755
0.2	.999999965	.999999997	.608338846	.991854290	.999560481	.999972305
0.3	.999999967	.999999997	.666828198	.992338795	.999584559	.999973772
0.4	.999999968	.999999997	.709851032	.992793194	.999607296	.999975161
0.5	.999999970	.999999997	.743677945	.993219469	.999628769	.999976476
0.6	.999999971	.999999997	.771330721	.993619461	.999649050	.999977720
0.7	.999999972	.999999997	.794523273	.993994884	.999668205	.999978898
0.8	.999999974	.999999997	.814331903	.994347327	.999686299	.999980014
0.9	.999999975	.999999998	.831481594	.994678274	.999703391	.999981070
1.0	.999999976	.999999998	.846486404	.994989104	.9997139	.999982069
1.1	.999999977	.999999998	.859725400	.995281101	.999734794	.999983016
1.2	.999999978	.999999998	.871486874	.995555462	.999749208	.999983912
1.3	.999999979	.999999998	.881995618	.995813305	.999762827	.999984760
1.4	.999999980	.999999998	.891430544	.996055669	.999775696	.999985564
1.5	.999999981	.999999998	.899936513	.996283527	.999787857	.999986324
1.6	.999999982	.999999998	.907632533	.996497785	.999799350	.999987045
1.7	.999999983	.999999998	.914617595	.996699291	.999810212	.999987727
1.8	.999999984	.999999998	.920974937	.996888835	.999820479	.999988373
1.9	.999999984	.999999998	.926775208	.997067157	.999830182	.999988984
2.0	.999999985	.999999999	.932078868	.997234948	.999839355	.999989564
2.1	.999999986	.999999999	.936938039	.997392855	.999848025	.999990112
2.2	.999999986	.999999999	.941397945	.997541482	.999856222	.999990632
2.3	.999999987	.999999999	.945498058	.997681395	.999863972	.999991124
2.4	.999999988	.999999999	.949273022	.997813124	.999871298	.999991590
2.5	.999999988	.999999999	.952753299	.997937165	.999878225	.999992031
2.6	.999999989	.999999999	.955965967	.998053982	.999884775	.999992449
2.7	.999999989	.999999999	.958935014	.998164011	.999890969	.999992845
2.8	.999999990	.999999999	.961681852	.998267659	.999896826	.999993221
2.9	.999999990	.999999999	.964225636	.998365309	.999902364	.999993576
3.0	.999999991	.999999999	.966583556	.998457318	.999907602	.999993912
3.1	.999999991	.999999999	.968771079	.998544023	.999912556	.999994231
3.2	.999999991	.999999999	.970802159	.998625739	.999917241	.999994533
3.3	.999999992	.999999999	.972689411	.998702762	.999921673	.999994819
3.4	.999999992	.999999999	.974444267	.998775370	.999925865	.999995090
3.5	.999999993	.999999999	.976077107	.998843823	.999929830	.999995347
3.6	.999999993	.999999999	.977597374	.998908365	.999933580	.999995590
3.7	.999999993	.999999999	.979013671	.998969226	.999937129	.999995821
3.8	.999999994	.999999999	.980333855	.999026622	.999940485	.999996039
3.9	.999999994	.999999999	.981565102	.999080755	.999943661	.999996246
4.0	.999999994	.999999999	.982713998	.999131816	.999946666	.999996442
4.1	.999999994	.999999999	.983786537	.999179984	.999949508	.999996628
4.2	.999999995	.999999999	.984788279	.999225426	.999952198	.999996804
4.3	.999999995	1.000000000	.985724297	.999268301	.999954743	.999996971
4.4	.999999995		.986599267	.999308758	.999957152	.999997129
4.5	.999999995		.987417494	.999346935	.999959430	.999997278
4.6	.999999996		.988182949	.999382965	.999961587	.999997420
4.7	.999999996		.988899294	.999416971	.999963628	.999997555
4.8	.999999996		.989569914	.999449070	.999965560	.999997682
4.9	.999999996		.990197935	.999479370	.999967388	.999997803

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+20,-.75)$	$\Gamma(U+25,-.75)$	$\Gamma(U+30,-.75)$	$\Gamma(U+35,-.75)$	$\Gamma(U,-.7)$	$\Gamma(U+5,-.7)$
0.0	.999997917	.999999854	.999999989	.999999999	.000000000	.991128213
0.1	.999998025	.999999861	.999999990	.999999999	.460371591	.991693407
0.2	.999998128	.999999868	.999999990	.999999999	.559856703	.992221181
0.3	.999998225	.999999875	.999999991	.999999999	.624684315	.992714143
0.4	.999998318	.999999881	.999999991	.999999999	.672966984	.993174707
0.5	.999998405	.999999888	.999999992	.999999999	.711232706	.993605106
0.6	.999998488	.999999893	.999999992	.999999999	.742681684	.994007411
0.7	.999998567	.999999899	.999999993	.999999999	.769153967	.994383542
0.8	.999998641	.999999904	.999999993	.999999999	.791818388	.994735279
0.9	.999998712	.999999909	.999999993	1.000000000	.811470087	.995064273
1.0	.999998778	.999999914	.999999994		.828677782	.995372057
1.1	.999998842	.999999918	.999999994		.843864088	.995660058
1.2	.999998902	.999999922	.999999994		.857352623	.995929596
1.3	.999998959	.999999926	.999999995		.869397276	.996181903
1.4	.999999013	.999999930	.999999995		.880201224	.996418123
1.5	.999999064	.999999934	.999999995		.889929779	.996639320
1.6	.999999113	.999999937	.999999995		.898719346	.996846483
1.7	.999999159	.999999940	.999999996		.906683831	.997040536
1.8	.999999202	.999999943	.999999996		.913919337	.997222336
1.9	.999999243	.999999946	.999999996		.920507682	.997392683
2.0	.999999283	.999999949	.999999996		.926519072	.997552323
2.1	.999999320	.999999952	.999999996		.932014168	.997701951
2.2	.999999355	.999999954	.999999997		.937045709	.997842213
2.3	.999999388	.999999956	.999999997		.941659797	.997973715
2.4	.999999420	.999999959	.999999997		.945896936	.998097020
2.5	.999999450	.999999961	.999999997		.949792866	.998212653
2.6	.999999478	.999999963	.999999997		.953379252	.998321106
2.7	.999999505	.999999965	.999999997		.956684250	.998422838
2.8	.999999531	.999999966	.999999998		.959732981	.998518275
2.9	.999999555	.999999968	.999999998		.962547924	.998607819
3.0	.999999578	.999999970	.999999998		.965149250	.998691842
3.1	.999999600	.999999971	.999999998		.967555107	.998770693
3.2	.999999621	.999999973	.999999998		.969781861	.998844700
3.3	.999999640	.999999974	.999999998		.971844301	.998914166
3.4	.999999659	.999999976	.999999998		.973755820	.998979377
3.5	.999999676	.999999977	.999999998		.975528568	.999040601
3.6	.999999693	.999999978	.999999998		.977173587	.999098086
3.7	.999999709	.999999979	.999999998		.978700930	.999152065
3.8	.999999724	.999999980	.999999999		.980119761	.999202758
3.9	.999999738	.999999981	.999999999		.981438445	.999250369
4.0	.999999752	.999999982	.999999999		.982664632	.999295089
4.1	.999999764	.999999983	.999999999		.983805321	.999337098
4.2	.999999777	.999999984	.999999999		.984866926	.999376563
4.3	.999999788	.999999985	.999999999		.985855334	.999413641
4.4	.999999799	.999999986	.999999999		.986775947	.999448479
4.5	.999999809	.999999986	.999999999		.987633733	.999481217
4.6	.999999819	.999999987	.999999999		.988433263	.999511981
4.7	.999999828	.999999988	.999999999		.989178746	.999540894
4.8	.999999837	.999999988	.999999999		.989874059	.999568070
4.9	.999999846	.999999989	.999999999		.990522781	.999593614

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U+10, -.7)$	$I(U+15, -.7)$	$I(U+20, -.7)$	$I(U+25, -.7)$	$I(U+30, -.7)$	$I(U, -.65)$
0.0	.999617626	.999980793	.999998967	.999999942	.999999997	.000000000
0.1	.999640199	.999981893	.999999025	.999999945	.999999997	.410828864
0.2	.999661422	.999982930	.999999080	.999999949	.999999997	.515874550
0.3	.999681376	.999983907	.999999132	.999999951	.999999997	.585893503
0.4	.999700139	.999984828	.999999181	.999999954	.999999997	.638715916
0.5	.999717183	.999985695	.999999227	.999999957	.999999998	.680930017
0.6	.999734375	.999986513	.999999271	.999999959	.999999998	.715823202
0.7	.999749979	.999987284	.999999312	.999999961	.999999998	.745312681
0.8	.999764656	.999988010	.999999350	.999999964	.999999998	.770630966
0.9	.999778460	.999988695	.999999387	.999999966	.999999998	.792625261
1.0	.999791445	.999989340	.999999421	.999999967	.999999998	.811907072
1.1	.999803660	.999989948	.999999454	.999999969	.999999998	.828934492
1.2	.999815151	.999990521	.999999485	.999999971	.999999998	.844060844
1.3	.999825362	.999991062	.999999514	.999999973	.999999998	.857565105
1.4	.999836133	.999991571	.999999541	.999999974	.999999999	.869671816
1.5	.999845704	.999992051	.999999567	.999999976	.999999999	.88064613
1.6	.999854709	.999992504	.999999591	.999999977	.999999999	.890395712
1.7	.999863183	.999992931	.999999614	.999999978	.999999999	.899292740
1.8	.999871157	.999993333	.999999636	.999999979	.999999999	.907363767
1.9	.999878662	.999993712	.999999656	.999999981	.999999999	.914701092
2.0	.999885725	.999994070	.999999675	.999999982	.999999999	.921384134
2.1	.999892373	.999994407	.999999694	.999999983	.999999999	.927481680
2.2	.999898630	.999994725	.999999711	.999999984	.999999999	.933053659
2.3	.999904520	.999995025	.999999727	.999999985	.999999999	.938152555
2.4	.999910064	.999995307	.999999742	.999999985	.999999999	.942824543
2.5	.999915283	.999995574	.999999757	.999999986	.999999999	.947110416
2.6	.999920197	.999995825	.999999770	.999999987	.999999999	.951046355
2.7	.999924823	.999996062	.999999783	.999999988	.999999999	.954664551
2.8	.999929178	.999996285	.999999795	.999999988	.999999999	.957993741
2.9	.999933278	.999996496	.999999807	.999999989	.999999999	.961059647
3.0	.999937139	.999996694	.999999818	.999999990	.999999999	.963885355
3.1	.999940775	.999996882	.999999828	.999999990	.999999999	.966491632
3.2	.999944198	.999997058	.999999838	.999999991	.999999999	.968897200
3.3	.999947422	.999997225	.999999847	.999999991	.999999999	.971118972
3.4	.999950458	.999997382	.999999855	.999999992	1.000000000	.973172256
3.5	.999953317	.999997530	.999999863	.999999992		.975070930
3.6	.999956010	.999997670	.999999871	.999999993		.976827595
3.7	.999958546	.999997802	.999999878	.999999993		.978453713
3.8	.999960935	.999997926	.999999885	.999999993		.979959720
3.9	.999963185	.999998043	.999999891	.999999994		.981355134
4.0	.999965304	.999998154	.999999897	.999999994		.982648643
4.1	.999967300	.999998258	.999999903	.999999994		.983848190
4.2	.999969181	.999998357	.999999909	.999999995		.984961042
4.3	.999970953	.999998449	.999999914	.999999995		.985993854
4.4	.999972622	.999998537	.999999919	.999999995		.986952727
4.5	.999974194	.999998620	.999999923	.999999996		.987843262
4.6	.999975676	.999998697	.999999927	.999999996		.988670601
4.7	.999977071	.999998771	.999999931	.999999996		.989439470
4.8	.999978386	.999998840	.999999935	.999999996		.990154215
4.9	.999979626	.999998906	.999999939	.999999996		.990818839

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+5, -.65)$	$\Gamma(U+10, -.65)$	$\Gamma(U+15, -.65)$	$\Gamma(U+20, -.65)$	$\Gamma(U+25, -.65)$	$\Gamma(U+30, -.65)$
0.0	.991437027	.999695942	.999987532	.999999455	.999999975	.999999999
0.1	.992012177	.999715034	.999988295	.999999468	.999999977	.999999999
0.2	.992547420	.999732213	.999989010	.999999519	.999999978	.999999999
0.3	.993045648	.999747657	.999989662	.999999548	.999999979	.999999999
0.4	.993508531	.999765341	.999990312	.999999575	.999999981	.999999999
0.5	.993941533	.999780032	.999990803	.999999601	.999999982	.999999999
0.6	.994343936	.999792793	.999991456	.999999625	.999999983	.999999999
0.7	.994718642	.999805686	.999991980	.999999647	.999999984	.999999999
0.8	.995068207	.999818762	.999992469	.999999666	.999999985	.999999999
0.9	.995393031	.999830077	.999992720	.999999688	.999999986	.999999999
1.0	.995697487	.999840679	.999993159	.999999707	.999999987	.999999999
1.1	.995980472	.999850612	.999993764	.999999725	.999999987	.999999999
1.2	.996244170	.999859922	.999994144	.999999741	.999999988	.999999999
1.3	.996490061	.999868645	.999994500	.999999757	.999999989	.999999999
1.4	.996720227	.999876819	.999994835	.999999772	.999999990	.999999999
1.5	.996934512	.999884481	.999995149	.999999785	.999999990	1.000000000
1.6	.997134478	.999891662	.999995445	.999999798	.999999991	
1.7	.997321109	.999898392	.999995722	.999999810	.999999991	
1.8	.997495321	.999904700	.999995982	.999999822	.999999992	
1.9	.997657963	.999910614	.999996220	.999999832	.999999992	
2.0	.997809825	.999916153	.999996455	.999999842	.999999993	
2.1	.997951639	.999921254	.999996671	.999999852	.999999993	
2.2	.998084089	.999926226	.999996873	.999999861	.999999994	
2.3	.998207609	.999930794	.999997063	.999999869	.999999994	
2.4	.998323387	.999935076	.999997241	.999999877	.999999994	
2.5	.998431373	.999939092	.999997408	.999999884	.999999995	
2.6	.998532278	.999942857	.999997566	.999999891	.999999995	
2.7	.998626576	.999946388	.999997713	.999999898	.999999995	
2.8	.998714710	.999949698	.999997852	.999999904	.999999996	
2.9	.998797091	.999952803	.999997982	.999999910	.999999996	
3.0	.998874104	.999955715	.999998104	.999999915	.999999996	
3.1	.998946106	.999958446	.999998219	.999999920	.999999996	
3.2	.999013429	.999961007	.999998327	.999999925	.999999997	
3.3	.999076333	.999963409	.999998428	.999999929	.999999997	
3.4	.999135258	.999965663	.999998523	.999999934	.999999997	
3.5	.999190324	.999967776	.999998613	.999999938	.999999997	
3.6	.999241830	.999969758	.999998697	.999999941	.999999997	
3.7	.999290013	.999971618	.999998775	.999999945	.999999997	
3.8	.999335089	.999973363	.999998850	.999999948	.999999998	
3.9	.999377263	.999974999	.999998919	.999999951	.999999998	
4.0	.999416726	.999976535	.999998984	.999999954	.999999998	
4.1	.999453653	.999977975	.999999046	.999999957	.999999998	
4.2	.999488212	.999979327	.999999103	.999999960	.999999998	
4.3	.999520556	.999980595	.999999158	.999999962	.999999998	
4.4	.999550830	.999981785	.999999208	.999999964	.999999998	
4.5	.999579168	.999982901	.999999256	.999999966	.999999998	
4.6	.999605696	.999983949	.999999301	.999999968	.999999999	
4.7	.999630531	.999984932	.999999343	.999999970	.999999999	
4.8	.999653784	.999985854	.999999383	.999999972	.999999999	
4.9	.999675556	.999986720	.999999420	.999999974	.999999999	



TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, -.6)$	$\Gamma(U+5, -.6)$	$\Gamma(U+10, -.6)$	$\Gamma(U+15, -.6)$	$\Gamma(U+20, -.6)$	$\Gamma(U+25, -.6)$
0.0	.000000000	.991711366	.999753507	.999991621	.999999698	.999999989
0.1	.366931438	.992294082	.999769888	.999992163	.999999717	.999999989
0.2	.475738137	.992834687	.999785118	.999992670	.999999735	.999999990
0.3	.549944016	.993336337	.999799331	.999993144	.999999752	.999999991
0.4	.606664444	.993801941	.999812596	.999993587	.999999768	.999999991
0.5	.652386933	.994234178	.999824976	.999994002	.999999783	.999999992
0.6	.690408565	.994635522	.999836530	.999994389	.999999797	.999999992
0.7	.722680911	.995008254	.999847316	.999994751	.999999810	.999999993
0.8	.750474431	.995354477	.999857384	.999995090	.999999822	.999999993
0.9	.774671990	.995676136	.999866782	.999995407	.999999833	.999999994
1.0	.795916975	.995975026	.999875556	.999995704	.999999844	.999999994
1.1	.814595482	.996252806	.999883748	.999995981	.999999854	.999999995
1.2	.831385280	.996511008	.999891396	.999996240	.999999863	.999999995
1.3	.846286671	.996751052	.999898537	.999996482	.999999872	.999999995
1.4	.859642822	.996974248	.999905205	.999996709	.999999880	.999999995
1.5	.871653676	.997161810	.999911431	.999996921	.999999888	.999999996
1.6	.882485760	.997374860	.999917245	.999997120	.999999895	.999999996
1.7	.892279297	.997554439	.999922675	.999997305	.999999901	.999999996
1.8	.901153475	.997721509	.999927746	.999997479	.999999908	.999999997
1.9	.909210421	.997876961	.999932482	.999997641	.999999914	.999999997
2.0	.916538273	.998021623	.999936905	.999997793	.999999919	.999999997
2.1	.923213563	.998156260	.999941037	.999997935	.999999924	.999999997
2.2	.929303114	.998281582	.999944896	.999998068	.999999929	.999999997
2.3	.934865557	.998398246	.999948501	.999998192	.999999934	.999999997
2.4	.939952557	.998506864	.999951868	.999998308	.999999938	.999999998
2.5	.944609819	.998608002	.999955014	.999998417	.999999942	.999999998
2.6	.948877919	.998702185	.999957953	.999998519	.999999945	.999999998
2.7	.952792993	.998789900	.999960699	.999998614	.999999949	.999999998
2.8	.956387315	.998871601	.999963264	.999998703	.999999952	.999999998
2.9	.959689788	.998947706	.999965661	.999998786	.999999955	.999999998
3.0	.962726353	.999018606	.999967900	.999998864	.999999958	.999999998
3.1	.965520351	.999084664	.999969993	.999998937	.999999961	.999999999
3.2	.968092817	.999146216	.999971948	.999999005	.999999963	.999999999
3.3	.970462752	.999203574	.999973775	.999999069	.999999966	.999999999
3.4	.972647343	.999257029	.999975482	.999999129	.999999968	.999999999
3.5	.974662164	.999306851	.999977078	.999999184	.999999970	.999999999
3.6	.976521345	.999353290	.999978569	.999999237	.999999972	.999999999
3.7	.978237727	.999396580	.999979963	.999999286	.999999974	.999999999
3.8	.979822992	.999436938	.999981265	.999999331	.999999975	.999999999
3.9	.981287783	.999474564	.999982483	.999999374	.999999977	.999999999
4.0	.982641803	.999509648	.999983621	.999999414	.999999978	.999999999
4.1	.983893910	.999542362	.999984684	.999999452	.999999980	.999999999
4.2	.985052200	.999572870	.999985678	.999999487	.999999981	.999999999
4.3	.986124076	.999601321	.999986608	.999999520	.999999982	.999999999
4.4	.987116314	.999627858	.999987476	.999999551	.999999983	.999999999
4.5	.988035123	.999652609	.999988288	.999999579	.999999984	.999999999
4.6	.988886194	.999675697	.999989047	.999999606	.999999985	.999999999
4.7	.989674751	.999697235	.999989757	.999999631	.999999986	.999999999
4.8	.990405587	.999717329	.999990421	.999999655	.999999987	1.000000000
4.9	.991083109	.999736075	.999991041	.999999677	.999999988	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, -.55)$	$\Gamma(U+.5, -.55)$	$\Gamma(U+1.0, -.55)$	$\Gamma(U+1.5, -.55)$	$\Gamma(U+2.0, -.55)$	$\Gamma(U+2.5, -.55)$
0.0	.000000000	.991953353	.999797027	.999994204	.999999825	.999999995
0.1	.327905472	.992542179	.999811117	.999994598	.999999837	.999999995
0.2	.438958943	.993086893	.999824222	.999994965	.999999848	.999999995
0.3	.516466681	.993590905	.999836410	.999995307	.999999858	.999999996
0.4	.576507636	.994057350	.999847747	.999995626	.999999868	.999999996
0.5	.625338579	.994489110	.999858292	.999995923	.999999877	.999999996
0.6	.666200705	.994888839	.999868102	.999996200	.999999885	.999999996
0.7	.701042582	.995258979	.999877228	.999996458	.999999893	.999999997
0.8	.731149625	.995601780	.999885718	.999996699	.999999900	.999999997
0.9	.757425434	.995919313	.999893617	.999996923	.999999907	.999999997
1.0	.780535220	.996213488	.999900466	.999997132	.999999913	.999999997
1.1	.800486097	.996486067	.999907804	.999997326	.999999919	.999999997
1.2	.819175334	.996738672	.999914166	.999997508	.999999924	.999999998
1.3	.835420988	.996972801	.999920087	.999997677	.999999929	.999999998
1.4	.849982241	.997189836	.999925597	.999997834	.999999934	.999999998
1.5	.863072411	.997391053	.999930724	.999997981	.999999938	.999999998
1.6	.874873898	.997577628	.999935496	.999998118	.999999943	.999999998
1.7	.885535441	.997750651	.999939937	.999998245	.999999946	.999999998
1.8	.895187524	.997911124	.999944071	.999998364	.999999950	.999999998
1.9	.903941487	.998059977	.999947918	.999998475	.999999953	.999999999
2.0	.911893710	.998198067	.999951499	.999998578	.999999956	.999999999
2.1	.919128109	.998326186	.999954833	.999998674	.999999959	.999999999
2.2	.925718120	.998445069	.999957936	.999998764	.999999962	.999999999
2.3	.931728306	.998555392	.999960824	.999998848	.999999965	.999999999
2.4	.937215654	.998657782	.999963514	.999998926	.999999967	.999999999
2.5	.942230550	.998752820	.999966017	.999998998	.999999969	.999999999
2.6	.946818164	.998841043	.999968348	.999999066	.999999971	.999999999
2.7	.951018192	.998922947	.999970518	.999999129	.999999973	.999999999
2.8	.954866480	.998998991	.999972539	.999999188	.999999975	.999999999
2.9	.958395056	.999069602	.999974420	.999999243	.999999977	.999999999
3.0	.961632676	.999135173	.999976172	.999999294	.999999978	.999999999
3.1	.964605211	.999196070	.999977803	.999999342	.999999980	.999999999
3.2	.967335983	.999252631	.999979322	.999999386	.999999981	.999999999
3.3	.969846046	.999305168	.999980737	.999999427	.999999982	.999999999
3.4	.972154443	.999353972	.999982054	.999999466	.999999984	.999999999
3.5	.974278418	.999399311	.999983281	.999999502	.999999985	1.000000000
3.6	.976233608	.999441435	.999984424	.999999536	.999999986	
3.7	.978034213	.999480576	.999985488	.999999567	.999999987	
3.8	.979693141	.999516946	.999986470	.999999596	.999999988	
3.9	.981222137	.999550744	.999987422	.999999623	.999999988	
4.0	.982631902	.999582155	.999988262	.999999649	.999999989	
4.1	.983932192	.999611348	.999989062	.999999673	.999999990	
4.2	.985131910	.999638483	.999989800	.999999695	.999999991	
4.3	.986239190	.999663707	.999990503	.999999715	.999999991	
4.4	.987261464	.999687154	.999991151	.999999734	.999999992	
4.5	.988205535	.999708954	.999991754	.999999752	.999999992	
4.6	.989077626	.999729210	.999992315	.999999769	.999999993	
4.7	.989888343	.999748062	.999992839	.999999784	.999999993	
4.8	.990628202	.999765583	.999993320	.999999799	.999999994	
4.9	.991316707	.999781876	.999993780	.999999813	.999999994	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,-.5)$	$\Gamma(U+5,-.5)$	$\Gamma(U+10,-.5)$	$\Gamma(U+15,-.5)$	$\Gamma(U+20,-.5)$	$\Gamma(U+25,-.5)$
0.0	.000000000	.992166145	.999830496	.999995691	.999999895	.999999997
0.1	.293127939	.992760198	.999842768	.999996183	.999999903	.999999997
0.2	.405155973	.993308295	.999854145	.999996454	.999999909	.999999998
0.3	.485183011	.993814087	.999864694	.999996706	.999999916	.999999998
0.4	.548021474	.994280923	.999874475	.999996941	.999999922	.999999998
0.5	.599594033	.994711880	.999883545	.999997158	.999999927	.999999998
0.6	.643030946	.995109781	.999891956	.999997360	.999999932	.999999998
0.7	.680245281	.995477222	.999899755	.999997547	.999999937	.999999998
0.8	.712516877	.995816588	.999906988	.999997721	.999999942	.999999998
0.9	.740756483	.996130071	.999913696	.999997883	.999999946	.999999999
1.0	.765641825	.996419688	.999919918	.999998033	.999999950	.999999999
1.1	.787694502	.996687294	.999925688	.999998173	.999999953	.999999999
1.2	.807326597	.996934594	.999931041	.999998303	.999999956	.999999999
1.3	.824870517	.997163161	.999936006	.999998423	.999999959	.999999999
1.4	.840598951	.997374441	.999940611	.999998535	.999999962	.999999999
1.5	.854738731	.997569764	.999944883	.999998639	.999999965	.999999999
1.6	.867480737	.997750358	.999948847	.999998735	.999999967	.999999999
1.7	.878987171	.997917353	.999952523	.999998825	.999999970	.999999999
1.8	.889397021	.998071791	.999955935	.999998908	.999999972	.999999999
1.9	.898830236	.998214631	.999959100	.999998985	.999999974	.999999999
2.0	.907390981	.998346759	.999962036	.999999057	.999999976	.999999999
2.1	.915170201	.998468790	.999964761	.999999124	.999999977	.999999999
2.2	.922247681	.998582077	.999967289	.999999186	.999999979	.999999999
2.3	.928693709	.998686715	.999969635	.999999244	.999999980	.999999999
2.4	.934570437	.998783543	.999971812	.999999297	.999999982	1.000000000
2.5	.939933007	.998873154	.999973832	.999999347	.999999983	
2.6	.944830490	.998956092	.999975707	.999999393	.999999984	
2.7	.949305669	.999032862	.999977446	.999999436	.999999985	
2.8	.953400704	.999103927	.999979061	.999999476	.999999986	
2.9	.957147702	.999169713	.999980560	.999999513	.999999987	
3.0	.960579193	.999230630	.999981951	.999999547	.999999988	
3.1	.963723553	.999287031	.999983242	.999999579	.999999989	
3.2	.966606360	.999339258	.999984440	.999999609	.999999990	
3.3	.969250702	.999387623	.999985552	.999999637	.999999991	
3.4	.971677456	.999432416	.999986584	.999999662	.999999991	
3.5	.973905520	.999473903	.999987543	.999999686	.999999992	
3.6	.975952022	.999512331	.999988432	.999999708	.999999992	
3.7	.977832503	.999547929	.999989258	.999999729	.999999993	
3.8	.979561081	.999580906	.999990025	.999999748	.999999993	
3.9	.981150592	.999611457	.999990736	.999999766	.999999994	
4.0	.982612719	.999639763	.999991397	.999999782	.999999994	
4.1	.983958100	.999665991	.999992011	.999999798	.999999995	
4.2	.985196436	.999690295	.999992580	.999999812	.999999995	
4.3	.986336575	.999712816	.999993109	.999999825	.999999995	
4.4	.987386594	.999733687	.999993600	.999999838	.999999996	
4.5	.988353873	.999753031	.999994056	.999999849	.999999996	
4.6	.989245157	.999770959	.999994479	.999999860	.999999996	
4.7	.990066614	.999787577	.999994872	.999999870	.999999997	
4.8	.990823890	.999802980	.999995237	.999999879	.999999997	
4.9	.991522155	.999817259	.999995576	.999999887	.999999997	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, -.45)$	$\Gamma(U+5, -.45)$	$\Gamma(U+10, -.45)$	$\Gamma(U+15, -.45)$	$\Gamma(U+20, -.45)$	$\Gamma(U+25, -.45)$
0.0	.000000000	.992353003	.999856735	.999997025	.999999935	.999999999
0.1	.262083926	.992951774	.999867509	.999997245	.999999940	.999999999
0.2	.374021658	.993502860	.999877467	.999997449	.999999944	.999999999
0.3	.455875073	.994010146	.999886673	.999997638	.999999949	.999999999
0.4	.521035428	.994477189	.999895184	.999997813	.999999952	.999999999
0.5	.575010995	.994907248	.999903053	.999997974	.999999956	.999999999
0.6	.620775429	.995303313	.999910327	.999998124	.999999959	.999999999
0.7	.660178198	.995668124	.999917053	.999998263	.999999962	.999999999
0.8	.694475254	.996004195	.999923272	.999998391	.999999965	.999999999
0.9	.724572254	.996313531	.999929023	.999998510	.999999967	.999999999
1.0	.751150709	.996599151	.999934340	.999998620	.999999970	.999999999
1.1	.774740610	.996862096	.999939258	.999998722	.999999972	.999999999
1.2	.795764413	.997104451	.999943805	.999998817	.999999974	.999999999
1.3	.814565610	.997327856	.999948010	.999998904	.999999976	.999999999
1.4	.831427985	.997533815	.999951900	.999998985	.999999978	1.000000000
1.5	.846589073	.997723712	.999955497	.999999060	.999999979	
1.6	.860249874	.997898820	.999958823	.999999129	.999999981	
1.7	.872562020	.998060205	.999961901	.999999194	.999999982	
1.8	.883733253	.998209245	.999964747	.999999253	.999999984	
1.9	.893831510	.998346625	.999967379	.999999308	.999999985	
2.0	.902988299	.998473357	.999969815	.999999359	.999999986	
2.1	.911301253	.998590276	.999972067	.999999407	.999999987	
2.2	.918856244	.998698152	.999974151	.999999450	.999999988	
2.3	.925729083	.998797693	.999976079	.999999491	.999999989	
2.4	.931986938	.998889550	.999977863	.999999528	.999999990	
2.5	.937689490	.998974325	.999979513	.999999563	.999999991	
2.6	.942889921	.999052569	.999981039	.999999595	.999999992	
2.7	.947635733	.999124792	.999982452	.999999625	.999999992	
2.8	.951969450	.999191461	.999983759	.999999653	.999999992	
2.9	.955929213	.999253005	.999984968	.999999676	.999999993	
3.0	.959549299	.999309832	.999986087	.999999702	.999999993	
3.1	.962860562	.999362298	.999987122	.999999724	.999999994	
3.2	.965890813	.999410744	.999988080	.999999744	.999999994	
3.3	.968665159	.999455481	.999988966	.999999763	.999999995	
3.4	.971206297	.999496795	.999989787	.999999781	.999999995	
3.5	.973534764	.999534952	.999990546	.999999797	.999999995	
3.6	.975669165	.999570193	.999991248	.999999812	.999999996	
3.7	.977626376	.999602746	.999991898	.999999826	.999999996	
3.8	.979421712	.999632815	.999992500	.999999838	.999999996	
3.9	.981069089	.999660592	.999993057	.999999850	.999999997	
4.0	.982581161	.999686254	.999993572	.999999861	.999999997	
4.1	.983969441	.999709963	.999994049	.999999871	.999999997	
4.2	.985244414	.999731869	.999994491	.999999881	.999999997	
4.3	.986415634	.999752103	.999994900	.999999890	.999999998	
4.4	.987491812	.999770812	.999995278	.999999898	.999999998	
4.5	.988480897	.999788096	.999995628	.999999905	.999999998	
4.6	.989390142	.999804058	.999995952	.999999912	.999999998	
4.7	.990226175	.999818829	.999996252	.999999919	.999999998	
4.8	.990995052	.999832471	.999996530	.999999925	.999999998	
4.9	.991702306	.999845080	.999996787	.999999930	.999999998	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,-.4)$	$\Gamma(U+5,-.4)$	$\Gamma(U+10,-.4)$	$\Gamma(U+15,-.4)$	$\Gamma(U+20,-.4)$	$\Gamma(U+25,-.4)$
0.0	.000000000	.992516957	.999877629	.999997806	.999999959	.999999999
0.1	.234339373	.993120180	.999887154	.999997974	.999999962	.999999999
0.2	.345300700	.993674078	.999895935	.999998130	.999999965	.999999999
0.3	.428366979	.994182762	.999904030	.999998273	.999999968	.999999999
0.4	.495415667	.994649991	.999911492	.999998406	.999999970	.999999999
0.5	.551480355	.995079203	.999918372	.999998528	.999999972	.999999999
0.6	.599340797	.995473545	.999924714	.999998641	.999999975	1.000000000
0.7	.640758782	.995835896	.999930562	.999998746	.999999976	
0.8	.676950274	.996168894	.999935953	.999998842	.999999978	
0.9	.708804383	.996474952	.999940925	.999998931	.999999980	
1.0	.736998684	.996756285	.999945508	.999999013	.999999981	
1.1	.762065726	.997014918	.999949735	.999999088	.999999983	
1.2	.784434117	.997252709	.999953633	.999999158	.999999984	
1.3	.804455311	.997471360	.999957227	.999999223	.999999985	
1.4	.822421843	.997672434	.999960542	.999999282	.999999986	
1.5	.838580197	.997857360	.999963599	.999999337	.999999988	
1.6	.853140161	.998027453	.999966418	.999999388	.999999988	
1.7	.866281807	.998183917	.999969018	.999999435	.999999989	
1.8	.878160904	.998327856	.999971416	.999999478	.999999990	
1.9	.888912552	.998460286	.999973628	.999999518	.999999991	
2.0	.898655436	.998582136	.999975668	.999999555	.999999992	
2.1	.907493440	.998694261	.999977550	.999999589	.999999992	
2.2	.915518260	.998797446	.999979286	.999999621	.999999993	
2.3	.922811040	.998892411	.999980887	.999999650	.999999993	
2.4	.929443810	.998979817	.999982364	.999999676	.999999994	
2.5	.935480681	.999060273	.999983726	.999999701	.999999994	
2.6	.940778860	.999134335	.999984983	.999999724	.999999995	
2.7	.945989503	.999202517	.999986143	.999999745	.999999995	
2.8	.950558447	.999265291	.999987212	.999999765	.999999996	
2.9	.954726837	.999323088	.999988199	.999999783	.999999996	
3.0	.958531665	.999376307	.999989110	.999999799	.999999996	
3.1	.962006239	.999425314	.999989950	.999999815	.999999996	
3.2	.965180591	.999470444	.999990725	.999999829	.999999997	
3.3	.968081833	.999512008	.999991440	.999999842	.999999997	
3.4	.970734468	.999550288	.999992100	.999999854	.999999997	
3.5	.973160665	.999585547	.999992709	.999999865	.999999997	
3.6	.975380500	.999618025	.999993270	.999999875	.999999998	
3.7	.977412170	.999647942	.999993789	.999999885	.999999998	
3.8	.979272184	.999675503	.999994267	.999999894	.999999998	
3.9	.980975531	.999700894	.999994709	.999999902	.999999998	
4.0	.982535827	.999724286	.999995116	.999999909	.999999998	
4.1	.983965454	.999745839	.999995492	.999999916	.999999998	
4.2	.985275674	.999765698	.999995839	.999999923	.999999999	
4.3	.986476739	.999783998	.999996159	.999999929	.999999999	
4.4	.987577987	.999800860	.999996454	.999999934	.999999999	
4.5	.988587928	.999816400	.999996727	.999999939	.999999999	
4.6	.989514319	.999830720	.999996979	.999999944	.999999999	
4.7	.990364236	.999843919	.999997211	.999999948	.999999999	
4.8	.991144137	.999856083	.999997425	.999999952	.999999999	
4.9	.991859916	.999867294	.999997623	.999999956	.999999999	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U,-.35)$	$I(U+.5,-.35)$	$I(U+1.0,-.35)$	$I(U+1.5,-.35)$	$I(U+2.0,-.35)$	$I(U+2.5,-.35)$
0.0	.000000000	.992660701	.999894493	.999998355	.999999973	
0.1	.209522832	.993268271	.999902970	.999998486	.999999976	
0.2	.318776351	.993824946	.999910765	.999998606	.999999977	
0.3	.402512976	.994335056	.999917930	.999998717	.999999979	
0.4	.471054324	.994802555	.999924518	.999998819	.999999981	
0.5	.528916337	.995231056	.999930576	.999998913	.999999982	
0.6	.578655086	.995623859	.999936146	.999998999	.999999984	
0.7	.621924277	.995983977	.999941267	.999999078	.999999985	
0.8	.659885613	.996314167	.999945976	.999999152	.999999986	
0.9	.693401642	.996616948	.999950306	.999999219	.999999987	
1.0	.723138538	.996894624	.999954289	.999999281	.999999988	
1.1	.749626054	.997149301	.999957951	.999999338	.999999989	
1.2	.773294945	.997382907	.999961318	.999999390	.999999990	
1.3	.794501623	.997597205	.999964416	.999999439	.999999991	
1.4	.813545113	.997793809	.999967264	.999999483	.999999992	
1.5	.830679127	.997974194	.999969884	.999999524	.999999992	
1.6	.846120939	.998139714	.999972293	.999999562	.999999993	
1.7	.860058053	.998291605	.999974509	.999999597	.999999993	
1.8	.872653337	.998431000	.999976548	.999999629	.999999994	
1.9	.884049040	.998558938	.999978423	.999999658	.999999994	
2.0	.894369994	.998676369	.999980147	.999999685	.999999995	
2.1	.903726194	.998784163	.999981734	.999999710	.999999995	
2.2	.912214905	.998883119	.999983193	.999999733	.999999996	
2.3	.919922408	.998973967	.999984535	.999999754	.999999996	
2.4	.926925446	.999057377	.999985770	.999999774	.999999996	
2.5	.933292451	.999133963	.999986906	.999999792	.999999997	
2.6	.939084572	.999204288	.999987951	.999999808	.999999997	
2.7	.944356557	.999268868	.999988913	.999999823	.999999997	
2.8	.949157511	.999328175	.999989798	.999999837	.999999997	
2.9	.953531547	.999382644	.999990611	.999999850	.999999998	
3.0	.957518347	.999432671	.999991360	.999999862	.999999998	
3.1	.961153657	.999478622	.999992049	.999999873	.999999998	
3.2	.964469715	.999520830	.999992683	.999999883	.999999998	
3.3	.967495627	.999559604	.999993266	.999999892	.999999998	
3.4	.970257694	.999595223	.999993803	.999999901	.999999998	
3.5	.972779712	.999627947	.999994296	.999999909	.999999999	
3.6	.975083220	.999658012	.999994751	.999999916	.999999999	
3.7	.977187735	.999685636	.999995169	.999999923	.999999999	
3.8	.979110953	.999711017	.999995553	.999999929	.999999999	
3.9	.980868930	.999734340	.999995907	.999999934	.999999999	
4.0	.982476244	.999755772	.999996233	.999999939	.999999999	
4.1	.983946136	.999775466	.999996533	.999999944	.999999999	
4.2	.985290643	.999793566	.999996809	.999999949	.999999999	
4.3	.986520711	.999810200	.999997063	.999999953	.999999999	
4.4	.987646299	.999825488	.999997296	.999999956	.999999999	
4.5	.988676471	.999839540	.999997511	.999999960	.999999999	
4.6	.989619483	.999852455	.999997709	.999999963	.999999999	
4.7	.990482855	.999864327	.999997891	.999999966	.999999999	
4.8	.991273441	.999875239	.999998059	.999999969	.999999999	
4.9	.991997490	.999885271	.999998213	.999999971	1.000000000	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, .3)$	$\Gamma(U+.5, .3)$	$\Gamma(U+1.0, .3)$	$\Gamma(U+1.5, .3)$	$\Gamma(U+2.0, .3)$	$\Gamma(U, .25)$
0.0	.000000000	.992786576	.999908269	.999998749	.999999982	.000000000
0.1	.187312735	.993398502	.999915859	.999998852	.999999984	.167428204
0.2	.294261160	.993958012	.999922819	.999998946	.999999985	.271590664
0.3	.378189519	.994469655	.999929202	.999999032	.999999986	.355289831
0.4	.447862359	.994937575	.999935055	.999999112	.999999987	.425764683
0.5	.507249978	.995365555	.999940423	.999999184	.999999989	.486424688
0.6	.558661702	.995757042	.999945346	.999999251	.999999989	.539315317
0.7	.603626138	.996115185	.999949862	.999999312	.999999990	.585826227
0.8	.643238311	.996442852	.999954003	.999999369	.999999991	.626975038
0.9	.678325092	.996742666	.999957801	.999999420	.999999992	.663544808
1.0	.709534509	.997017017	.999961285	.999999468	.999999992	.696159230
1.1	.737388467	.997268089	.999964480	.999999511	.999999993	.725327656
1.2	.762316068	.997497877	.999967411	.999999551	.999999994	.751473930
1.3	.784675801	.997708202	.999970100	.999999588	.999999994	.774955857
1.4	.804770984	.997900726	.999972566	.999999622	.999999995	.796078924
1.5	.822860885	.998076970	.999974828	.999999653	.999999995	.815106316
1.6	.839168978	.998238322	.999976903	.999999681	.999999995	.832266442
1.7	.853889215	.998386050	.999978807	.999999707	.999999996	.847758731
1.8	.867190907	.998521314	.999980554	.999999731	.999999996	.861758183
1.9	.879222575	.998645174	.999982156	.999999753	.999999997	.874419015
2.0	.890115053	.998758599	.999983626	.999999773	.999999997	.885877618
2.1	.899984009	.998862474	.999984975	.999999792	.999999997	.896254993
2.2	.908932021	.998957608	.999986212	.999999809	.999999997	.905658770
2.3	.917050309	.999044743	.999987347	.999999825	.999999998	.914184914
2.4	.924420187	.999124556	.999988388	.999999839	.999999998	.921919158
2.5	.931114293	.999197666	.999989344	.999999852	.999999998	.928938237
2.6	.937197635	.999264640	.999990221	.999999864	.999999998	.935310939
2.7	.942728496	.999325995	.999991025	.999999875	.999999998	.941099017
2.8	.947759203	.999382206	.999991764	.999999885	.999999998	.946357979
2.9	.952336804	.999433708	.999992441	.999999895	.999999999	.951137777
3.0	.956503649	.999480896	.999993063	.999999903	.999999999	.955483457
3.1	.960297907	.999524134	.999993623	.999999911	.999999999	.959435444
3.2	.963754009	.999563755	.999994156	.999999919	.999999999	.963030504
3.3	.966903046	.999600063	.999994637	.999999925	.999999999	.966301657
3.4	.969773115	.999633336	.999995077	.999999931	.999999999	.969278792
3.5	.972389630	.999663830	.999995482	.999999937	.999999999	.971988939
3.6	.974775593	.999691777	.999995853	.999999942	.999999999	.974456561
3.7	.976951837	.999717391	.999996193	.999999947	.999999999	.976703857
3.8	.978937244	.999740869	.999996506	.999999951	.999999999	.978750743
3.9	.980748935	.999762389	.999996793	.999999955	.999999999	.980615556
4.0	.982402444	.999782115	.999997056	.999999959	.999999999	.982314736
4.1	.983911874	.999800197	.999997298	.999999962	.999999999	.983863243
4.2	.985290030	.999816773	.999997520	.999999965	1.000000000	.985274655
4.3	.986548545	.999831970	.999997723	.999999968		.986561292
4.4	.987698068	.999845901	.999997910	.999999971		.987734351
4.5	.988748024	.999858674	.999998081	.999999973		.988803998
4.6	.989707345	.999870384	.999998239	.999999975		.989779473
4.7	.990583933	.999881121	.999998383	.999999977		.990669175
4.8	.991385033	.999890965	.999998516	.999999979		.991480739
4.9	.992117244	.999899992	.999998637	.999999981		.992221159

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+5, -.25)$	$\Gamma(U+10, -.25)$	$\Gamma(U+15, -.25)$	$\Gamma(U+20, -.25)$	$\Gamma(U, -.2)$	$\Gamma(U+5, -.2)$
0.0	.992896604	.999919645	.999999036	.999999980	.999999999	.999999999
0.1	.993512971	.999926477	.999999118	.999999984	.999999999	.999999999
0.2	.994075440	.999932727	.999999192	.999999990	.999999999	.999999999
0.3	.994586773	.999938445	.999999260	.999999991	.999999999	.999999999
0.4	.995057305	.999943675	.999999323	.999999992	.999999999	.999999999
0.5	.995484983	.999948460	.999999380	.999999992	.999999999	.999999999
0.6	.995875409	.999952837	.999999432	.999999993	.999999999	.999999999
0.7	.996223183	.999956842	.999999480	.999999994	.999999999	.999999999
0.8	.996557275	.999960507	.999999524	.999999994	.999999999	.999999999
0.9	.996854429	.999963859	.999999564	.999999995	.999999999	.999999999
1.0	.997125780	.999966926	.999999601	.999999995	.999999999	.999999999
1.1	.997373584	.999969733	.999999634	.999999995	.999999999	.999999999
1.2	.997599902	.999972300	.999999665	.999999996	.999999999	.999999999
1.3	.997806609	.999974650	.999999693	.999999996	.999999999	.999999999
1.4	.997995418	.999976800	.999999719	.999999997	.999999999	.999999999
1.5	.998167880	.999978767	.999999745	.999999997	.999999999	.999999999
1.6	.998325443	.999980567	.999999765	.999999997	.999999999	.999999999
1.7	.998469381	.999982214	.999999784	.999999997	.999999999	.999999999
1.8	.998600886	.999983722	.999999793	.999999998	.999999999	.999999999
1.9	.998721040	.999985101	.999999819	.999999998	.999999999	.999999999
2.0	.998830827	.999986363	.999999834	.999999998	.999999999	.999999999
2.1	.998931147	.999987518	.999999848	.999999998	.999999999	.999999999
2.2	.999022822	.999988575	.999999861	.999999998	.999999999	.999999999
2.3	.999106600	.999989543	.999999873	.999999998	.999999999	.999999999
2.4	.999183165	.999990428	.999999884	.999999999	.999999999	.999999999
2.5	.999253141	.999991239	.999999893	.999999999	.999999999	.999999999
2.6	.999317099	.999991980	.999999902	.999999999	.999999999	.999999999
2.7	.999375558	.999992659	.999999911	.999999999	.999999999	.999999999
2.8	.999428994	.999993280	.999999918	.999999999	.999999999	.999999999
2.9	.999477840	.999993849	.999999925	.999999999	.999999999	.999999999
3.0	.999522493	.999994369	.999999931	.999999999	.999999999	.999999999
3.1	.999563313	.999994845	.999999937	.999999999	.999999999	.999999999
3.2	.999600631	.999995281	.999999942	.999999999	.999999999	.999999999
3.3	.999634750	.999995680	.999999947	.999999999	.999999999	.999999999
3.4	.999665944	.999996045	.999999952	.999999999	.999999999	.999999999
3.5	.999694465	.999996380	.999999956	.999999999	.999999999	.999999999
3.6	.999720543	.999996686	.999999959	.999999999	.999999999	.999999999
3.7	.999744388	.999996966	.999999963	.999999999	.999999999	.999999999
3.8	.999766193	.999997222	.999999966	1.000000000	.999999999	.999999999
3.9	.999786131	.999997457	.999999969		.999999999	.999999999
4.0	.999804365	.999997672	.999999971		.999999999	.999999999
4.1	.999821039	.999997869	.999999974		.999999999	.999999999
4.2	.999836289	.999998049	.999999976		.999999999	.999999999
4.3	.999850235	.999998213	.999999978		.999999999	.999999999
4.4	.999862990	.999998364	.999999980		.999999999	.999999999
4.5	.999874655	.999998502	.999999982		.999999999	.999999999
4.6	.999885325	.999998629	.999999983		.999999999	.999999999
4.7	.999895084	.999998745	.999999985		.999999999	.999999999
4.8	.999904011	.999998851	.999999986		.999999999	.999999999
4.9	.999912176	.999998946	.999999987		.999999999	.999999999



TABLE 1 (CONTINUED)  
THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\gamma(U, P)$

U	$\gamma(U+10, -.2)$	$\gamma(U+15, -.2)$	$\gamma(U+20, -.2)$	$\gamma(U, -.15)$	$\gamma(U+5, -.15)$	$\gamma(U+10, -.15)$
0.0	.999929129	.999999249	.999999992	.000000000	.993075829	.999937105
0.1	.999935310	.999999314	.999999993	.133676272	.993701523	.999942722
0.2	.999940951	.999999373	.999999993	.231213918	.994270434	.999947837
0.3	.999946099	.999999428	.999999994	.313396606	.994787744	.999952495
0.4	.999950797	.999999477	.999999994	.384602059	.995258160	.999956736
0.5	.999955085	.999999523	.999999995	.447114682	.995685955	.999960598
0.6	.999958999	.999999564	.999999995	.502422123	.996075010	.999964115
0.7	.999962572	.999999602	.999999996	.551605401	.996428850	.999967318
0.8	.999965832	.999999636	.999999996	.595501564	.996750678	.999970234
0.9	.999968808	.999999668	.999999996	.634785297	.997043404	.999972890
1.0	.999971525	.999999697	.999999997	.670015263	.997309671	.999975309
1.1	.999974004	.999999723	.999999997	.701662885	.997551880	.999977512
1.2	.999976267	.999999747	.999999997	.730131476	.997772214	.999979518
1.3	.999978333	.999999769	.999999997	.755769647	.997972658	.999981344
1.4	.999980219	.999999789	.999999998	.778881124	.998155013	.999983008
1.5	.999981940	.999999807	.999999998	.799732165	.998320918	.999984523
1.6	.999983512	.999999824	.999999998	.818557345	.998471862	.999985903
1.7	.999984946	.999999839	.999999998	.835564154	.998609200	.999987160
1.8	.999986256	.999999853	.999999998	.850936733	.998734162	.999988305
1.9	.999987451	.999999866	.999999999	.864838951	.998847867	.999989347
2.0	.999988543	.999999877	.999999999	.877416974	.998951332	.999990297
2.1	.999989539	.999999888	.999999999	.888801436	.999045483	.999991161
2.2	.999990449	.999999898	.999999999	.899109284	.999131160	.999991949
2.3	.999991279	.999999907	.999999999	.908445370	.999209129	.999992666
2.4	.999992037	.999999915	.999999999	.916903816	.999280085	.999993320
2.5	.999992729	.999999922	.999999999	.924569211	.999344661	.999993915
2.6	.999993361	.999999929	.999999999	.931517651	.999403432	.999994457
2.7	.999993938	.999999935	.999999999	.937817648	.999456921	.999994951
2.8	.999994465	.999999941	.999999999	.943530939	.999505604	.999995400
2.9	.999994945	.999999946	.999999999	.948713192	.999549914	.999995810
3.0	.999995385	.999999950	.999999999	.953414635	.999590244	.999996183
3.1	.999995785	.999999955	1.000000000	.957680615	.999626954	.999996523
3.2	.999996151	.999999959		.961552090	.999660369	.999996833
3.3	.999996486	.999999962		.965066075	.999690785	.999997115
3.4	.999996791	.999999965		.968256034	.999718472	.999997372
3.5	.999997069	.999999968		.971152233	.999743676	.999997606
3.6	.999997324	.999999971		.973782056	.999766619	.999997819
3.7	.999997556	.999999974		.976170287	.999787505	.999998013
3.8	.999997768	.999999976		.978339364	.999806519	.999998190
3.9	.999997962	.999999978		.980309609	.999823829	.999998351
4.0	.999998139	.999999980		.982099429	.999839588	.999998498
4.1	.999998300	.999999982		.983725503	.999853934	.999998631
4.2	.999998448	.999999983		.985202947	.999866996	.999998753
4.3	.999998582	.999999985		.986545463	.999878880	.999998864
4.4	.999998705	.999999986		.987765475	.999889715	.999998960
4.5	.999998818	.999999987		.988874249	.999899573	.999999057
4.6	.999998920	.999999988		.989882005	.999908548	.999999141
4.7	.999999014	.999999989		.990798012	.999916720	.999999217
4.8	.999999099	.999999990		.991630680	.999924161	.999999287
4.9	.999999177	.999999991		.992387644	.999930936	.999999350

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+15,-.15)$	$\Gamma(U+20,-.15)$	$\Gamma(U,-.1)$	$\Gamma(U+5,-.1)$	$\Gamma(U+10,-.1)$	$\Gamma(U+15,-.1)$
0.0	.999999408	.999999994	.000000000	.993147804	.999943866	.999999529
0.1	.999999461	.999999995	.119396466	.993778447	.999948993	.999999572
0.2	.999999509	.999999995	.213257903	.994350888	.999953651	.999999611
0.3	.999999552	.999999996	.294243975	.994875519	.999957854	.999999646
0.4	.999999592	.999999996	.365430479	.995342229	.999961727	.999999677
0.5	.999999628	.999999996	.426554626	.995770451	.999965224	.999999706
0.6	.999999661	.999999997	.484818941	.996159208	.999968349	.999999734
0.7	.999999692	.999999997	.535139881	.996512149	.999971284	.999999759
0.8	.999999719	.999999997	.580254193	.996832584	.999973985	.999999781
0.9	.999999744	.999999998	.620773734	.997123515	.999976287	.999999799
1.0	.999999767	.999999998	.657217521	.997387666	.999978251	.999999814
1.1	.999999787	.999999998	.690032239	.997627510	.999980416	.999999833
1.2	.999999806	.999999998	.719606314	.997845288	.999982255	.999999850
1.3	.999999824	.999999998	.746280088	.998043037	.999983827	.999999864
1.4	.999999839	.999999998	.770353488	.998222602	.999985304	.999999876
1.5	.999999854	.999999999	.792092010	.998385661	.999986645	.999999886
1.6	.999999867	.999999999	.811731497	.998533734	.999987863	.999999896
1.7	.999999878	.999999999	.829482046	.998668201	.999988971	.999999904
1.8	.999999889	.999999999	.845531254	.998790315	.999989977	.999999910
1.9	.999999899	.999999999	.860046944	.998901214	.999990891	.999999915
2.0	.999999908	.999999999	.873179495	.999001970	.999991722	.999999920
2.1	.999999916	.999999999	.885063833	.999093399	.999992477	.999999927
2.2	.999999924	.999999999	.895821164	.999176473	.999993165	.999999934
2.3	.999999930	.999999999	.905560476	.999251923	.999993786	.999999940
2.4	.999999937	.999999999	.914379854	.999320450	.999994352	.999999946
2.5	.999999942	.999999999	.922367641	.999382691	.999994866	.999999952
2.6	.999999947	.999999999	.929603456	.999439223	.999995330	.999999957
2.7	.999999952	1.000000000	.936159099	.999490571	.999995752	.999999962
2.8	.999999956		.942095356	.999537211	.999996146	.999999967
2.9	.999999960		.947482706	.999579575	.999996499	.999999970
3.0	.999999964		.952361960	.999618057	.999996810	.999999973
3.1	.999999967		.956784833	.999653011	.999997106	.999999976
3.2	.999999970		.960794442	.999684763	.999997372	.999999978
3.3	.999999973		.964429769	.999713606	.999997611	.999999980
3.4	.999999975		.967726065	.999739807	.999997829	.999999982
3.5	.999999977		.970715213	.999763608	.999998027	.999999983
3.6	.999999979		.973426063	.999785229	.999998207	.999999985
3.7	.999999981		.975884719	.999804871	.999998370	.999999986
3.8	.999999983		.978114812	.999822715	.999998519	.999999987
3.9	.999999984		.980137733	.999838925	.999998654	.999999989
4.0	.999999986		.981972851	.999853651	.999998776	.999999990
4.1	.999999987		.983637709	.999867030	.999998888	.999999991
4.2	.999999988		.985148196	.999879184	.999998989	.999999991
4.3	.999999989		.986518704	.999890227	.999999081	.999999992
4.4	.999999990		.987762276	.999900259	.999999165	.999999993
4.5	.999999991		.988890727	.999909373	.999999241	.999999994
4.6	.999999992		.989914765	.999917654	.999999310	.999999994
4.7	.999999993		.990844098	.999925177	.999999373	.999999995
4.8	.999999993		.991687523	.999932013	.999999430	.999999995
4.9	.999999994		.992453015	.999938223	.999999482	.999999996

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+20,-.1)$	$\Gamma(U,-.05)$	$\Gamma(U+5,-.05)$	$\Gamma(U+10,-.05)$	$\Gamma(U+15,-.05)$	$\Gamma(U+20,-.05)$
0.0	.999999996	.000000000	.993209559	.999949639	.999999622	.999999997
0.1	.999999996	.106610000	.993845367	.999954336	.999999657	.999999997
0.2	.999999997	.196642609	.994421563	.999958596	.999999684	.999999998
0.3	.999999997	.27619715	.994943746	.999962458	.999999718	.999999998
0.4	.999999997	.347136851	.995416988	.999965959	.999999744	.999999998
0.5	.999999998	.410682030	.995845885	.999969134	.999999768	.999999998
0.6	.999999998	.467747404	.996234594	.999972013	.999999790	.999999998
0.7	.999999998	.519080968	.996586891	.999974623	.999999807	.999999999
0.8	.999999998	.565314279	.996906190	.999976989	.999999821	.999999999
0.9	.999999998	.606991696	.997195587	.999979125	.999999841	.999999999
1.0	.999999998	.644588503	.997457886	.999981081	.999999858	.999999999
1.1	.999999999	.678523217	.997695627	.999982845	.999999871	.999999999
1.2	.999999999	.709166556	.997911112	.999984445	.999999883	.999999999
1.3	.999999999	.736848294	.998106428	.999985895	.999999894	.999999999
1.4	.999999999	.761862715	.998283465	.999987210	.999999904	.999999999
1.5	.999999999	.784473069	.998443936	.999988403	.999999913	.999999999
1.6	.999999999	.804915288	.998589391	.999989484	.999999921	.999999999
1.7	.999999999	.823401140	.998721239	.999990464	.999999928	.999999999
1.8	.999999999	.840120937	.998840752	.999991353	.999999935	.999999999
1.9	.999999999	.855245876	.998949087	.999992159	.999999941	1.000000000
2.0	.999999999	.868930093	.999047290	.999992890	.999999947	
2.1	.999999999	.881312455	.999136310	.999993553	.999999951	
2.2	1.000000000	.892518152	.999217005	.999994154	.999999955	
2.3		.902660099	.999290155	.999994699	.999999959	
2.4		.911840186	.999356467	.999995193	.999999964	
2.5		.920150390	.999416580	.999995641	.999999967	
2.6		.927673765	.999471073	.999996047	.999999970	
2.7		.934485337	.999520474	.999996416	.999999973	
2.8		.940652889	.999565258	.999996750	.999999976	
2.9		.946237683	.999605856	.999997053	.999999978	
3.0		.951295093	.999642661	.999997327	.999999980	
3.1		.955875186	.999676027	.999997576	.999999982	
3.2		.960023233	.999706276	.999997802	.999999983	
3.3		.963780179	.999733699	.999998007	.999999985	
3.4		.967183062	.999758560	.999998193	.999999986	
3.5		.970265385	.999781099	.999998361	.999999988	
3.6		.973057465	.999801533	.999998514	.999999989	
3.7		.975586731	.999820558	.999998652	.999999990	
3.8		.977878009	.999836853	.999998776	.999999991	
3.9		.979953765	.999852080	.999998892	.999999992	
4.0		.981834335	.999865885	.999998995	.999999992	
4.1		.983538128	.999878401	.999999089	.999999993	
4.2		.985081807	.999889749	.999999174	.999999994	
4.3		.986480461	.999900037	.999999251	.999999994	
4.4		.987747749	.999909364	.999999320	.999999995	
4.5		.988896039	.999917821	.999999384	.999999995	
4.6		.989936533	.999925488	.999999441	.999999996	
4.7		.990879371	.999932440	.999999493	.999999996	
4.8		.991733740	.999938743	.999999540	.999999997	
4.9		.992507958	.999944457	.999999583	.999999997	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,0)$	$\Gamma(U+5,0)$	$\Gamma(U+10,0)$	$\Gamma(U+15,0)$	$\Gamma(U+20,0)$	$\Gamma(U,\infty)$
0.0	.000000000	.993262053	.999954600	.999999694	.999999998	.000000000
0.1	.095162582	.993903253	.999958920	.999999723	.999999999	.004916100
0.2	.181269247	.994483436	.999962830	.999999751	.999999998	.015797065
0.3	.259181779	.995008406	.999966367	.999999773	.999999998	.024310057
0.4	.329679954	.995483419	.999969560	.999999795	.999999999	.031302192
0.5	.393469340	.995913229	.999972464	.999999814	.999999999	.037089159
0.6	.451188364	.996302136	.999975084	.999999832	.999999999	.042212493
0.7	.503414696	.996654035	.999977455	.999999848	.999999999	.046812917
0.8	.550671036	.996972445	.999979600	.999999863	.999999999	.050931002
0.9	.593430340	.997260555	.999981542	.999999876	.999999999	.054605067
1.0	.632120559	.997521248	.999983298	.999999887	.999999999	.057907770
1.1	.667128916	.997757132	.999984888	.999999898	.999999999	.060904000
1.2	.698805788	.997970569	.999986326	.999999908	.999999999	.063601940
1.3	.727468207	.998163695	.999987627	.999999917	.999999999	.066001914
1.4	.753403036	.998338443	.999988805	.999999925	.999999999	.068105210
1.5	.776869840	.998496561	.999989870	.999999932	1.000000000	.069970062
1.6	.798103482	.998639632	.999990834	.999999938		.071629190
1.7	.817316476	.998769088	.999991705	.999999944		.073129190
1.8	.834701112	.998886225	.999992495	.999999949		.074426007
1.9	.850431381	.998992215	.999993210	.999999954		.075559940
2.0	.864664717	.999088118	.999993856	.999999959		.076538010
2.1	.877543572	.999174895	.999994440	.999999963		.077375410
2.2	.889196842	.999253414	.999994970	.999999966		.078085440
2.3	.899741156	.999324461	.999995448	.999999969		.078680115
2.4	.909282047	.999388747	.999995881	.999999972		.079167031
2.5	.917915001	.999446916	.999996273	.999999975		.079559474
2.6	.925726422	.999499549	.999996628	.999999977		.079859608
2.7	.932794487	.999547173	.999996949	.999999979		.080085000
2.8	.939169937	.999590265	.999997239	.999999981		.080237000
2.9	.944976780	.999629256	.999997502	.999999983		.080369917
3.0	.950212932	.999664537	.999997740	.999999985		.080491459
3.1	.954950798	.999696461	.999997955	.999999986		.080601090
3.2	.959237796	.999725346	.999998149	.999999988		.080700119
3.3	.963116833	.999751483	.999998326	.999999989		.080789319
3.4	.966626730	.999775133	.999998485	.999999990		.080869687
3.5	.969802617	.999796532	.999998629	.999999991		.080942044
3.6	.972676278	.999815894	.999998760	.999999992		.080998000
3.7	.975276474	.999833414	.999998878	.999999992		.081048000
3.8	.977629228	.999849267	.999998984	.999999993		.081093000
3.9	.979758089	.999863611	.999999081	.999999994		.081134000
4.0	.981684361	.999876590	.999999168	.999999994		.081171000
4.1	.983427325	.999888334	.999999248	.999999995		.081205000
4.2	.985004423	.999898961	.999999319	.999999995		.081236000
4.3	.986431441	.999908576	.999999384	.999999996		.081264000
4.4	.987722660	.999917276	.999999443	.999999996		.081289000
4.5	.988891003	.999925148	.999999496	.999999997		.081311000
4.6	.989948164	.999932271	.999999544	.999999997		.081331000
4.7	.990904723	.999938717	.999999587	.999999997		.081349000
4.8	.991770253	.999944548	.999999626	.999999997		.081365000
4.9	.992553417	.999949825	.999999662	.999999998		.081379000

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+5, .05)$	$\Gamma(U+10, .05)$	$\Gamma(U+15, .05)$	$\Gamma(U+20, .05)$	$\Gamma(U, .1)$	$\Gamma(U+5, .1)$
0.0	.993306119	.999958890	.999999751	.999999998	.000000000	.993342482
0.1	.993952947	.999962877	.999999775	.999999999	.0075747072	.993995179
0.2	.994537351	.999966478	.999999797	.999999999	.0153892400	.994504041
0.3	.995065345	.999969729	.999999816	.999999999	.0228045397	.995115293
0.4	.995542365	.999972665	.999999834	.999999999	.0297127626	.995594552
0.5	.995973325	.999975316	.999999850	.999999999	.0360925905	.996026892
0.6	.996362665	.999977711	.999999865	.999999999	.0419542011	.996416893
0.7	.996714400	.999979873	.999999878	.999999999	.0473214144	.996760691
0.8	.997032157	.999981825	.999999890	.999999999	.0522240758	.997086017
0.9	.997319213	.999983588	.999999901	.999999999	.0566943161	.997372240
1.0	.997578532	.999985181	.999999910	.999999999	.0607645686	.997630403
1.1	.997812789	.999986618	.999999919	1.000000000	.0644664784	.997863248
1.2	.998024405	.999987917	.999999927		.0678303011	.998073253
1.3	.998215565	.999989089	.999999934		.0708845869	.998262654
1.4	.998388243	.999990148	.999999940		.0736560340	.998433467
1.5	.998544226	.999991104	.999999945		.0761694476	.998587513
1.6	.998685125	.999991967	.999999951		.0784477627	.998726435
1.7	.998812398	.999992746	.999999956		.0805121069	.998851714
1.8	.998927361	.999993450	.999999960		.0823818861	.998964688
1.9	.999031203	.999994086	.999999964		.0840748832	.999066563
2.0	.999125000	.999994560	.999999968		.0856073633	.999158428
2.1	.999209722	.999995178	.999999971		.0869941797	.999241264
2.2	.999286246	.999995646	.999999974		.0882488783	.999315958
2.3	.999355366	.999996069	.999999976		.0893837996	.999383307
2.4	.999417796	.999996450	.999999979		.0904101746	.999444034
2.5	.999474184	.999996795	.999999981		.0913382165	.999498789
2.6	.999525114	.999997106	.999999982		.0921772062	.999548157
2.7	.999571114	.999997387	.999999984		.0929355720	.999592669
2.8	.999612661	.999997640	.999999986		.0936209639	.999632801
2.9	.999650186	.999997869	.999999987		.0942403217	.999668983
3.0	.999684077	.999998076	.999999988		.0947999384	.999701604
3.1	.999714687	.999998263	.999999989		.0953055184	.999731013
3.2	.999742332	.999998432	.999999991		.0957622302	.999757527
3.3	.999767300	.999998584	.999999991		.0961747557	.999781431
3.4	.999789850	.999998721	.999999992		.0965473345	.999802980
3.5	.999810216	.999998845	.999999993		.0968838049	.999822406
3.6	.999828609	.999998958	.999999994		.0971876407	.999839919
3.7	.999845221	.999999059	.999999994		.0974619854	.999855707
3.8	.999860223	.999999150	.999999995		.0977096829	.999869939
3.9	.999873772	.999999233	.999999995		.0979333055	.999882769
4.0	.999886008	.999999307	.999999996		.0981351795	.999894334
4.1	.999897058	.999999374	.999999996		.0983174084	.999904759
4.2	.999907038	.999999435	.999999997		.0984818939	.999914156
4.3	.999916051	.999999490	.999999997		.0986303551	.999922627
4.4	.999924190	.999999540	.999999997		.0987643455	.999930763
4.5	.999931540	.999999584	.999999997		.0988852694	.999937146
4.6	.999938178	.999999625	.999999998		.0989943954	.999943350
4.7	.999944173	.999999661	.999999998		.0990928698	.999948942
4.8	.999949586	.999999694	.999999998		.0991817282	.999953983
4.9	.999954475	.999999724	.999999998		.0992619061	.999958526

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,.1)$	$\Gamma(U+15,.1)$	$\Gamma(U+20,.1)$	$\Gamma(U,.15)$	$\Gamma(U+5,.15)$	$\Gamma(U+10,.15)$
0.0	.999962621	.999999795	.999999999	.000000000	.993371777	.999999999
0.1	.999966312	.999999815	.999999999	.007544359	.994030585	.999999999
0.2	.999969639	.999999834	.999999999	.141727972	.994624143	.999999999
0.3	.999972637	.999999850	.999999999	.213615361	.995156884	.999999999
0.4	.999975340	.999999865	.999999999	.281964037	.995640610	.999999999
0.5	.999977715	.999999878	.999999999	.345551057	.996074555	.999999999
0.6	.999979971	.999999890	.999999999	.404425886	.996465457	.999999999
0.7	.999981949	.999999901	.999999999	.458660613	.996817512	.999999999
0.8	.999983733	.999999911	1.000000000	.508440323	.997134620	.999999999
0.9	.999985340	.999999920		.554007422	.997420219	.999999999
1.0	.999986788	.999999928		.595630844	.997677430	.999999999
1.1	.999988094	.999999935		.633586137	.997909063	.999999999
1.2	.999989271	.999999941		.668154759	.998117655	.999999999
1.3	.999990331	.999999947		.699597660	.998305487	.999999999
1.4	.999991286	.999999952		.728171514	.998474620	.999999999
1.5	.999992148	.999999957		.754116037	.998626919	.999999999
1.6	.999992924	.999999961		.777657987	.998764040	.999999999
1.7	.999993623	.999999965		.799004882	.998887506	.999999999
1.8	.999994254	.999999969		.818351181	.998998657	.999999999
1.9	.999994822	.999999972		.835875761	.999098727	.999999999
2.0	.999995334	.999999975		.851743187	.999186816	.999999999
2.1	.999995795	.999999977		.866104478	.999269921	.999999999
2.2	.999996211	.999999979		.87907947	.999342931	.999999999
2.3	.999996586	.999999981		.890850046	.999408654	.999999999
2.4	.999996923	.999999983		.901476218	.999467815	.999999999
2.5	.999997227	.999999985		.911081720	.999521068	.999999999
2.6	.999997502	.999999986		.919762414	.999569002	.999999999
2.7	.999997749	.999999988		.927605529	.999612145	.999999999
2.8	.999997971	.999999989		.934690364	.999650977	.999999999
2.9	.999998172	.999999990		.941088958	.999685930	.999999999
3.0	.999998353	.999999991		.946866714	.999717386	.999999999
3.1	.999998516	.999999992		.952082968	.999745697	.999999999
3.2	.999998663	.999999993		.956791530	.999771176	.999999999
3.3	.999998795	.999999993		.961041165	.999794105	.999999999
3.4	.999998914	.999999994		.964876067	.999814742	.999999999
3.5	.999999022	.999999995		.968336240	.999833312	.999999999
3.6	.999999118	.999999995		.971457910	.999850023	.999999999
3.7	.999999206	.999999996		.974275875	.999865062	.999999999
3.8	.999999284	.999999996		.976813732	.999878594	.999999999
3.9	.999999355	.999999996		.979104360	.999890771	.999999999
4.0	.999999419	.999999997		.981169991	.999901728	.999999999
4.1	.999999476	.999999997		.983032545	.999911585	.999999999
4.2	.999999528	.999999997		.984711834	.999920459	.999999999
4.3	.999999575	.999999998		.986225757	.999928442	.999999999
4.4	.999999617	.999999998		.987590487	.999935624	.999999999
4.5	.999999655	.999999998		.988820627	.999942086	.999999999
4.6	.999999689	.999999998		.989929367	.999947900	.999999999
4.7	.999999720	.999999998		.990928615	.999953131	.999999999
4.8	.999999748	.999999999		.991829122	.999957838	.999999999
4.9	.999999773	.999999999		.992640590	.999962072	.999999999

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+15,.15)$	$\Gamma(U+20,.15)$	$\Gamma(U,.2)$	$\Gamma(U+5,.2)$	$\Gamma(U+10,.2)$	$\Gamma(U+15,.2)$
0.0	.999999831	.999999999	.000000000	.993394558	.999968746	.999999859
0.1	.999999848	.999999999	.060208447	.994059721	.999971938	.999999874
0.2	.999999863	.999999999	.130482208	.994658212	.999974804	.999999887
0.3	.999999877	.999999999	.200412778	.995196673	.999977377	.999999896
0.4	.999999889	.999999999	.267500164	.995681089	.999979686	.999999909
0.5	.999999900	1.000000000	.330747202	.996116854	.999981764	.999999918
0.6	.999999910		.389763968	.996508829	.999983627	.999999925
0.7	.999999920		.444460593	.996861390	.999985300	.999999934
0.8	.999999928		.494909173	.997178481	.999986803	.999999941
0.9	.999999935		.541271988	.997463653	.999988152	.999999947
1.0	.999999941		.583760742	.997720105	.999989363	.999999952
1.1	.999999947		.622612113	.997950715	.999990451	.999999957
1.2	.999999953		.658072578	.998158077	.999991427	.999999962
1.3	.999999957		.690388844	.998344523	.999992304	.999999966
1.4	.999999962		.719801802	.998512155	.999993091	.999999969
1.5	.999999966		.746542771	.998662866	.999993798	.999999972
1.6	.999999969		.770831262	.998798355	.999994433	.999999975
1.7	.999999972		.792873767	.998927155	.999995002	.999999978
1.8	.999999975		.812863230	.999029643	.999995514	.999999980
1.9	.999999978		.830978996	.999128060	.999995973	.999999982
2.0	.999999980		.847387076	.999216522	.999996385	.999999984
2.1	.999999982		.862240609	.999296032	.999996755	.999999985
2.2	.999999984		.875680462	.999367493	.999997087	.999999987
2.3	.999999985		.887835909	.999431718	.999997386	.999999988
2.4	.999999987		.898825344	.999489437	.999997653	.999999990
2.5	.999999988		.908757014	.999541307	.999997894	.999999991
2.6	.999999989		.917729735	.999587920	.999998109	.999999992
2.7	.999999990		.925833600	.999629806	.999998303	.999999992
2.8	.999999991		.933150656	.999667443	.999998477	.999999993
2.9	.999999992		.939755545	.999701262	.999998633	.999999994
3.0	.999999993		.945716112	.999731649	.999998773	.999999995
3.1	.999999994		.951093974	.999758952	.999998899	.999999995
3.2	.999999994		.955945051	.999783482	.999999012	.999999996
3.3	.999999995		.960320062	.999805520	.999999113	.999999996
3.4	.999999995		.964264978	.999825320	.999999204	.999999996
3.5	.999999996		.967821446	.999843107	.999999285	.999999997
3.6	.999999996		.971027176	.999859086	.999999359	.999999997
3.7	.999999997		.973952299	.999873441	.999999424	.999999997
3.8	.999999997		.976519692	.999886336	.999999483	.999999998
3.9	.999999997		.978865280	.999897919	.999999536	.999999998
4.0	.999999998		.980978307	.999908324	.999999584	.999999998
4.1	.999999998		.982881587	.999917675	.999999627	.999999998
4.2	.999999998		.984595731	.999926065	.999999665	.999999999
4.3	.999999998		.986139355	.999933605	.999999699	.999999999
4.4	.999999998		.987529267	.999940377	.999999730	.999999999
4.5	.999999999		.988780642	.999946465	.999999758	.999999999
4.6	.999999999		.989907174	.999951923	.999999783	.999999999
4.7	.999999999		.990921220	.999956829	.999999805	.999999999
4.8	.999999999		.991833928	.999961235	.999999825	.999999999
4.9	.999999999		.992655351	.999965192	.999999843	.999999999

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+20, .2)$	$\Gamma(U, .25)$	$\Gamma(U+5, .25)$	$\Gamma(U+10, .25)$	$\Gamma(U+15, .25)$	$\Gamma(U+20, .25)$
0.0	.999999999	.000000000	.993411313	.999971274	.999999882	1.000000000
0.1	.999999999	.053649902	.994083078	.999974253	.999999894	
0.2	.999999999	.120088739	.994686737	.999976924	.999999905	
0.3	1.000000000	.187792639	.995229142	.999979319	.999999915	
0.4		.253706641	.995716466	.999981465	.999999924	
0.5		.316495612	.996154264	.999983389	.999999932	
0.6		.375544552	.996547535	.999985114	.999999939	
0.7		.430606878	.996900779	.999986659	.999999945	
0.8		.481642897	.997218047	.999988045	.999999951	
0.9		.528734112	.997502979	.999989286	.999999956	
1.0		.572033564	.997758854	.999990399	.999999961	
1.1		.611735365	.997988617	.999991397	.999999965	
1.2		.648055316	.998194920	.999992291	.999999969	
1.3		.681218306	.998380146	.999993092	.999999971	
1.4		.711450045	.998546438	.999993810	.999999973	
1.5		.738971649	.998697721	.999994454	.999999975	
1.6		.763996159	.998829726	.999995031	.999999976	
1.7		.786726381	.998950014	.999995547	.999999978	
1.8		.807353638	.999057978	.999996010	.999999980	
1.9		.826057169	.999154878	.999996425	.999999981	
2.0		.843003961	.999241842	.999996797	.999999982	
2.1		.858348898	.999319886	.999997130	.999999983	
2.2		.872235107	.999389925	.999997429	.999999984	
2.3		.884794447	.999452764	.999997697	.999999985	
2.4		.896148085	.999509153	.999997936	.999999986	
2.5		.906407114	.999559748	.999998151	.999999987	
2.6		.915673196	.999605142	.999998344	.999999988	
2.7		.924039218	.999645868	.999998516	.999999989	
2.8		.931589911	.999682404	.999998671	.999999990	
2.9		.938402478	.999715181	.999998809	.999999991	
3.0		.944547182	.999744583	.999998933	.999999992	
3.1		.950087903	.999770958	.999999044	.999999993	
3.2		.955082662	.999794615	.999999144	.999999994	
3.3		.959584122	.999815835	.999999233	.999999995	
3.4		.963640041	.999834867	.999999313	.999999996	
3.5		.967293702	.999851937	.999999385	.999999997	
3.6		.970584309	.999867246	.999999449	.999999998	
3.7		.973547348	.999880975	.999999506	.999999999	
3.8		.976214927	.999893288	.999999558	.999999999	
3.9		.978616081	.999904330	.999999604	.999999999	
4.0		.980777053	.999914231	.999999645	.999999999	
4.1		.982721557	.999923109	.999999682	.999999999	
4.2		.984471009	.999931071	.999999715	.999999999	
4.3		.986044747	.999938209	.999999745	.999999999	
4.4		.987460223	.999944610	.999999772	.999999999	
4.5		.988733185	.999950348	.999999795	.999999999	
4.6		.989877836	.999955494	.999999817	.999999999	
4.7		.990906985	.999960107	.999999836	.999999999	
4.8		.991832180	.999964242	.999999852	.999999999	
4.9		.992663830	.999967950	.999999866	.999999999	



TABLE 1 (CONTINUED)  
THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$

U	$\Gamma(U, .3)$	$\Gamma(U+.5, .3)$	$\Gamma(U+1.0, .3)$	$\Gamma(U+1.5, .3)$	$\Gamma(U, .35)$	$\Gamma(U+.5, .35)$
0.0	.000000000	.993422473	.999973513	.999999901	.000000000	.993428420
0.1	.047788374	.994101085	.999976302	.999999911	.042551664	.994114123
0.2	.110485949	.994710144	.999978798	.999999921	.101616577	.994728814
0.3	.175912543	.995256718	.999981031	.999999929	.164732379	.995279774
0.4	.240555552	.995747163	.999983030	.999999937	.228020250	.995773548
0.5	.302778496	.996187197	.999984818	.999999943	.289578848	.996216017
0.6	.361756636	.996581962	.999986418	.999999949	.348109785	.996612466
0.7	.417092877	.996936080	.999987850	.999999955	.403912474	.996967641
0.8	.468637664	.997253707	.999989131	.999999960	.455890093	.997285803
0.9	.516391616	.997538577	.999990278	.999999964	.504242765	.997570780
1.0	.560448055	.997794046	.999991303	.999999968	.549003407	.997826306
1.1	.600957098	.998023129	.999992221	.999999971	.590276964	.998054566
1.2	.638102355	.998228535	.999993042	.999999974	.628213515	.998259225
1.3	.672085445	.998412696	.999993776	.999999977	.662990080	.998442466
1.4	.703115576	.998577796	.999994433	.999999979	.694798129	.998606516
1.5	.731402505	.998725798	.999995021	.999999982	.723834952	.998753371
1.6	.757151809	.998858463	.999995547	.999999984	.750297698	.998884824
1.7	.780561770	.998977371	.999996017	.999999985	.774379308	.9990002479
1.8	.801821393	.999083942	.999996438	.999999987	.796265781	.999107777
1.9	.821109233	.999179450	.999996814	.999999988	.816134418	.999202009
2.0	.838592792	.999265037	.999997151	.999999989	.834152763	.999286331
2.1	.854428317	.999341730	.999997452	.999999991	.850478053	.999361779
2.2	.868760893	.999410449	.999997721	.999999992	.865257027	.999429283
2.3	.881724731	.999472018	.999997962	.999999992	.878626000	.999489676
2.4	.893443580	.999527179	.999998177	.999999993	.890711119	.999543702
2.5	.904031239	.999576596	.999998370	.999999994	.901628740	.999592030
2.6	.913592110	.999620865	.999998543	.999999995	.911485890	.999635258
2.7	.922221781	.999660520	.999998697	.999999995	.920380779	.999673921
2.8	.930007616	.999696039	.999998835	.999999996	.928403338	.999708501
2.9	.937029337	.999727854	.999998958	.999999996	.935635763	.999739426
3.0	.943359593	.999756348	.999999068	.999999997	.942153061	.999767080
3.1	.949064507	.999781867	.999999167	.999999997	.948023578	.999791810
3.2	.954204195	.999804721	.999999255	.999999997	.953309508	.999813922
3.3	.958833254	.999825187	.999999334	.999999998	.958067384	.999833692
3.4	.963001232	.999843514	.999999404	.999999998	.962348537	.999851369
3.5	.966753050	.999859924	.999999467	.999999998	.966199530	.999867172
3.6	.970129408	.999874618	.999999524	.999999998	.969662566	.999881299
3.7	.973167156	.999887774	.999999574	.999999998	.972775862	.999893928
3.8	.975899637	.999899553	.999999619	.999999999	.975574003	.999905218
3.9	.978357003	.999910099	.999999660	.999999999	.978088265	.999915309
4.0	.980566506	.999919540	.999999696	.999999999	.980346916	.999924328
4.1	.982552763	.999927992	.999999728	.999999999	.982375485	.999932389
4.2	.984338005	.999935558	.999999757	.999999999	.984197022	.999939594
4.3	.985942296	.999942330	.999999783	.999999999	.985832323	.999946033
4.4	.987383736	.999948393	.999999806	.999999999	.987300145	.999951787
4.5	.988678652	.999953819	.999999826	.999999999	.988617396	.999956929
4.6	.989841761	.999958676	.999999845	.999999999	.989799312	.999961524
4.7	.9908886328	.999963024	.999999861	.999999999	.990859620	.999965630
4.8	.991824304	.999966915	.999999876	1.000000000	.991810676	.999969299
4.9	.992666455	.999970397	.999999889		.992663606	.999972577

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+10, .35)$	$\Gamma(U+15, .35)$	$\Gamma(U, .4)$	$\Gamma(U+5, .4)$	$\Gamma(U+10, .4)$	$\Gamma(U+15, .4)$
0.0	.999975505	.999999916	.000000000	.993429489	.999977284	.999999929
0.1	.999978122	.999999925	.0037074889	.994122527	.999979744	.999999937
0.2	.999980460	.999999933	.0093427384	.994743079	.999981939	.999999943
0.3	.999982548	.999999940	.0154214168	.995298641	.999983896	.999999950
0.4	.999984414	.999999947	.0216075269	.995795948	.999985642	.999999957
0.5	.999986080	.999999953	.0276880334	.996241047	.999987199	.999999963
0.6	.999987569	.999999958	.0335434018	.996639364	.999988587	.999999969
0.7	.999988899	.999999962	.0391059920	.996995770	.999989825	.999999976
0.8	.999990086	.999999966	.0443397146	.997314636	.999990929	.999999982
0.9	.999991147	.999999970	.0492286173	.997599880	.999991914	.999999987
1.0	.999992095	.999999973	.0537699165	.997855018	.999992792	.999999990
1.1	.999992941	.999999976	.0579694969	.998083202	.999993574	.999999996
1.2	.999993697	.999999979	.0618388973	.998287256	.999994272	.999999998
1.3	.999994372	.999999981	.0653932384	.998469714	.999994895	.999999998
1.4	.999994975	.999999983	.0686497776	.998632844	.999995449	.999999998
1.5	.999995514	.999999985	.0716268920	.998778680	.999995944	.999999997
1.6	.999995994	.999999986	.0743433612	.998909041	.999996385	.999999995
1.7	.999996424	.999999988	.0768178649	.999025500	.999996776	.999999993
1.8	.999996807	.999999989	.0790686344	.999129696	.999997128	.999999991
1.9	.999997150	.999999990	.0811132180	.999222758	.999997441	.999999992
2.0	.999997455	.999999991	.0829683279	.999305915	.999997719	.999999993
2.1	.999997728	.999999992	.0846497482	.999380217	.999997967	.999999994
2.2	.999997972	.999999993	.0861722876	.999446600	.999998189	.999999994
2.3	.999998190	.999999994	.0875497638	.999505905	.999998386	.999999995
2.4	.999998384	.999999995	.0887950115	.999558881	.999998562	.999999996
2.5	.999998557	.999999995	.0899199072	.999606200	.999998718	.999999996
2.6	.999998712	.999999996	.0909354045	.999648464	.999998850	.999999997
2.7	.999998851	.999999996	.0918515779	.999686210	.999998982	.999999997
2.8	.999998974	.999999997	.0926776706	.999719919	.999999093	.999999997
2.9	.999999084	.999999997	.0934221451	.999750020	.999999192	.999999998
3.0	.999999183	.999999997	.0940927344	.999776898	.999999280	.999999998
3.1	.999999270	.999999998	.0946964934	.999800896	.999999359	.999999998
3.2	.999999349	.999999998	.0952398482	.999822322	.999999429	.999999998
3.3	.999999419	.999999998	.0957286448	.999841450	.999999491	.999999998
3.4	.999999481	.999999998	.0961681946	.999858526	.999999546	.999999999
3.5	.999999537	.999999998	.0965633184	.999873768	.999999596	.999999999
3.6	.999999587	.999999999	.0969183868	.999887374	.999999640	.999999999
3.7	.999999631	.999999999	.0972373591	.999899518	.999999679	.999999999
3.8	.999999671	.999999999	.0975238187	.999910356	.999999714	.999999999
3.9	.999999706	.999999999	.0977810063	.999920029	.999999745	.999999999
4.0	.999999738	.999999999	.0980116507	.999928661	.999999773	.999999999
4.1	.999999766	.999999999	.0982189771	.999936364	.999999798	.999999999
4.2	.999999791	.999999999	.0984048329	.999943237	.999999820	.999999999
4.3	.999999814	.999999999	.0985715117	.999949370	.999999840	.999999999
4.4	.999999834	.999999999	.0987209752	.999954843	.999999857	1.000000000
4.5	.999999852	1.000000000	.0988549730	.999959725	.999999875	
4.6	.999999868		.0989750814	.999964081	.999999887	
4.7	.999999882		.0990827190	.999967967	.999999899	
4.8	.999999895		.0991791629	.999971433	.999999910	
4.9	.999999906		.0992655619	.999974526	.999999920	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, .45)$	$\Gamma(U+.5, .45)$	$\Gamma(U+1.0, .45)$	$\Gamma(U+1.5, .45)$	$\Gamma(U, .5)$	$\Gamma(U+.5, .5)$
0.0	.000000000	.993425982	.999978878	.999999939	.000000000	.993418166
0.1	.033699743	.994126598	.999981196	.999999946	.029973840	.994126601
0.2	.085868846	.994753236	.999983261	.999999952	.078894883	.994753551
0.3	.144321902	.995313613	.999985099	.999999957	.135021418	.995324921
0.4	.204696147	.995814653	.999986736	.999999962	.193859410	.995829919
0.5	.264667202	.996262569	.999988194	.999999966	.252924206	.996280836
0.6	.322879719	.996662933	.999989492	.999999970	.310717571	.996683419
0.7	.378529752	.997020740	.999990647	.999999973	.366316717	.997042791
0.8	.431156045	.997340470	.999991676	.999999976	.419164206	.997363539
0.9	.480520715	.997626134	.999992592	.999999979	.468945465	.997649771
1.0	.526535148	.997881330	.999993407	.999999981	.515511386	.997905165
1.1	.569211408	.998109279	.999994133	.999999983	.558826790	.998133010
1.2	.608629195	.998312863	.999994779	.999999985	.598934879	.998330221
1.3	.644912814	.998494666	.999995354	.999999987	.635932064	.998517520
1.4	.678214868	.998656999	.999995866	.999999988	.669949991	.998679172
1.5	.708704611	.998801932	.999996321	.999999990	.701142450	.998823312
1.6	.736559589	.998931315	.999996727	.999999991	.729675882	.998951822
1.7	.761959677	.999046805	.999997067	.999999992	.755722481	.999066583
1.8	.785082839	.999149882	.999997409	.999999993	.779455206	.999168498
1.9	.806102174	.999241873	.999997694	.999999994	.801044223	.999259508
2.0	.825183918	.999323961	.999997949	.999999994	.820654412	.999340614
2.1	.842486135	.999397205	.999998175	.999999995	.838443680	.999412005
2.2	.858157949	.999462554	.999998376	.999999995	.854561875	.999477276
2.3	.872339150	.999520851	.999998556	.999999996	.869150147	.999534643
2.4	.885160090	.999572855	.999998715	.999999996	.882340654	.999585745
2.5	.896741786	.999619240	.999998857	.999999997	.894256506	.999631264
2.6	.907196165	.999660610	.999998983	.999999997	.905011899	.999671205
2.7	.916626415	.999697505	.999999096	.999999997	.914712372	.999707909
2.8	.925127404	.999730406	.999999196	.999999998	.923455158	.999740060
2.9	.932786136	.999759743	.999999284	.999999998	.931329589	.999768688
3.0	.939682232	.999785901	.999999364	.999999998	.938417541	.999794176
3.1	.945888419	.999809222	.999999434	.999999998	.944793896	.999816808
3.2	.951471013	.999830012	.999999497	.999999999	.950527009	.999837069
3.3	.956490392	.999848545	.999999552	.999999999	.955679169	.999855050
3.4	.961001453	.999865065	.999999602	.999999999	.960307051	.999871055
3.5	.965054048	.999879789	.999999646	.999999999	.964462153	.999885299
3.6	.968693391	.999892912	.999999685	.999999999	.968191205	.999897976
3.7	.971960457	.999904608	.999999720	.999999999	.971536500	.999909257
3.8	.974892334	.999915030	.999999751	.999999999	.974536575	.999919295
3.9	.977522569	.999924318	.999999778	.999999999	.977225941	.999928226
4.0	.979881479	.999932593	.999999803	.999999999	.979636011	.999936173
4.1	.981996443	.999939967	.999999825	1.000000000	.981795099	.999943242
4.2	.983892166	.999946536	.999999844		.983728750	.999949532
4.3	.985590933	.999952389	.999999861		.985460001	.999955126
4.4	.987112825	.999957602	.999999877		.987009607	.999960103
4.5	.988475936	.999962247	.999999890		.988396261	.999964529
4.6	.989696552	.999966384	.999999903		.989636785	.999968485
4.7	.990789333	.999970069	.999999913		.990746309	.999971966
4.8	.991767462	.999973351	.999999923		.991738439	.999975080
4.9	.992642794	.999976275	.999999932		.992625398	.999977849

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+10, .5)$	$\Gamma(U+15, .5)$	$\Gamma(U, .55)$	$\Gamma(U+5, .55)$	$\Gamma(U+10, .55)$	$\Gamma(U+15, .55)$
0.0	.999980311	.999999948	.000000000	.9993406278	.999981603	.999999955
0.1	.999982500	.999999954	.026650121	.994122774	.999983674	.999999960
0.2	.999984446	.999999959	.072462618	.994762257	.999985512	.999999965
0.3	.999986177	.999999964	.126280283	.995332887	.999987144	.999999970
0.4	.999987715	.999999968	.183542469	.995841975	.999988595	.999999974
0.5	.99989083	.999999971	.241636560	.996296072	.999989879	.999999978
0.6	.999890298	.999999975	.298938502	.996701042	.999991020	.999999982
0.7	.999891379	.999999977	.354415722	.997062136	.999992031	.999999986
0.8	.999992340	.999999980	.407419180	.997384052	.999992932	.999999990
0.9	.999993194	.999999982	.457559640	.997670953	.999993730	.999999995
1.0	.999993952	.999999984	.504628074	.997926717	.999994438	.999999997
1.1	.999994627	.999999986	.548541030	.998154586	.999995060	.999999998
1.2	.999995226	.999999988	.589306914	.998357803	.999995623	.999999999
1.3	.999995759	.999999989	.626991025	.998538452	.999996118	.999999999
1.4	.999996232	.999999991	.661703425	.998699532	.999996557	.999999999
1.5	.999996653	.999999991	.693523053	.998842983	.999996946	.999999999
1.6	.999997027	.999999992	.722782925	.998970717	.999997292	.999999999
1.7	.999997359	.999999993	.749467319	.999084444	.999997590	.999999999
1.8	.999997654	.999999994	.773803548	.999185685	.999997870	.999999999
1.9	.999997916	.999999995	.795958294	.999275800	.999998111	.999999999
2.0	.999998149	.999999995	.816094624	.999356004	.999998325	.999999999
2.1	.999998356	.999999996	.834165902	.999427378	.999998515	.999999999
2.2	.999998540	.999999996	.850234365	.999490886	.999998682	.999999999
2.3	.999998703	.999999997	.865303331	.999547391	.999998832	.999999999
2.4	.999998848	.999999997	.879491496	.999597658	.999998965	.999999999
2.5	.999998977	.999999997	.892742925	.999642372	.999999082	.999999999
2.6	.999999092	.999999998	.904800956	.999682142	.999999180	.999999999
2.7	.999999194	.999999998	.912773384	.999717512	.999999276	.999999999
2.8	.999999284	.999999998	.921754733	.999748965	.999999360	.999999999
2.9	.999999364	.999999998	.929851611	.999776934	.999999433	.999999999
3.0	.999999435	.999999999	.937123111	.999801800	.999999497	.999999999
3.1	.999999495	.999999999	.943681244	.999823907	.999999555	.999999999
3.2	.999999555	.999999999	.949566387	.999843560	.999999605	.999999999
3.3	.999999605	.999999999	.954842733	.999861020	.999999650	.999999999
3.4	.999999649	.999999999	.959598732	.999876555	.999999690	.999999999
3.5	.999999688	.999999999	.963857528	.999890354	.999999725	.999999999
3.6	.999999722	.999999999	.967677360	.999902616	.999999755	.999999999
3.7	.999999754	.999999999	.971101988	.999913513	.999999784	.999999999
3.8	.999999782	.999999999	.974171024	.999923195	.999999810	.999999999
3.9	.999999806	1.000000000	.976920315	.999931797	.999999830	1.000000000
4.0	.999999826		.979382262	.999939440	.999999850	
4.1	.999999847		.981588114	.999946229	.999999867	
4.2	.999999868		.983550271	.999952209	.999999880	
4.3	.999999888		.985322575	.999957616	.999999895	
4.4	.999999909		.986900313	.999962374	.999999907	
4.5	.999999930		.988310931	.999966595	.999999916	
4.6	.999999951		.989571742	.999970302	.999999927	
4.7	.999999972		.990696355	.999973684	.999999935	
4.8	.999999994		.991704790	.999976640	.999999940	
4.9	.999999994		.992603609	.999979271	.999999949	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,.6)$	$\Gamma(U+.5,.6)$	$\Gamma(U+10,.6)$	$\Gamma(U+15,.6)$	$\Gamma(U,.65)$	$\Gamma(U+.5,.65)$
0.0	.498640009	.493390533	.999982771	.999999961	.000000000	.993371122
0.1	.523586319	.494115329	.999984734	.999999966	.021044487	.994104456
0.2	.550032151	.494761565	.999986474	.999999970	.061066357	.994757666
0.3	.578057697	.495337629	.999988010	.999999973	.110354399	.995339362
0.4	.607733571	.495851025	.999989382	.999999975	.164381754	.995857252
0.5	.639073977	.496308477	.999990594	.999999979	.220370151	.996318230
0.6	.672133637	.496715992	.999991607	.999999981	.276494272	.996728461
0.7	.707821787	.497078967	.999992619	.999999984	.331530021	.997093454
0.8	.746015612	.497402194	.999993482	.999999985	.384660202	.997418130
0.9	.786627957	.497689471	.999994209	.999999987	.435353592	.997706668
1.0	.493855571	.497946161	.999994871	.999999989	.483284113	.997963651
1.1	.530357337	.498174174	.999995457	.999999990	.528274240	.998191923
1.2	.579740335	.498377081	.999995977	.999999991	.570254300	.998394829
1.3	.641070742	.498557019	.999996437	.999999992	.609232392	.998575157
1.4	.653577011	.498716225	.999996845	.999999993	.645272125	.998735393
1.5	.680027199	.498851027	.999997201	.999999994	.678475790	.998877751
1.6	.710001307	.498968131	.999997525	.999999995	.708971758	.999004208
1.7	.743174595	.499070115	.999997809	.999999995	.736904846	.999116522
1.8	.780123101	.499161565	.999998060	.999999996	.762429223	.999216260
1.9	.770544401	.499250668	.999998283	.999999996	.785702988	.999304818
2.0	.811504530	.4993370245	.999998480	.999999997	.806884208	.999383438
2.1	.855254687	.499420793	.999998654	.999999997	.826128012	.999453226
2.2	.867272302	.499503985	.999998808	.999999997	.843554527	.999515166
2.3	.882277401	.4995859192	.999998945	.999999998	.859397446	.999570134
2.4	.897612374	.499666885	.999999066	.999999998	.873703102	.999618908
2.5	.907200794	.4997462612	.999999173	.999999998	.886629912	.999662181
2.6	.916030074	.4998241700	.999999268	.999999998	.898298108	.999700569
2.7	.924007223	.49989726393	.999999352	.999999999	.908819695	.999734619
2.8	.929040924	.49996737197	.999999427	.999999999	.918298555	.999764819
2.9	.928352025	.4999784551	.999999493	.999999999	.926830678	.999791601
3.0	.935000737	.4999808839	.999999551	.999999999	.934504470	.999815349
3.1	.942250352	.4999830402	.999999603	.999999999	.941401120	.999836404
3.2	.948280773	.4999849544	.999999645	.999999999	.947594995	.999855071
3.3	.954011064	.4999866535	.999999689	.999999999	.953154061	.999871618
3.4	.959476407	.4999881617	.999999725	.999999999	.958140306	.999886285
3.5	.963240191	.4999895001	.999999756	.999999999	.962610162	.999899285
3.6	.967151920	.4999906879	.999999784	1.000000000	.966614919	.999910807
3.7	.970650619	.4999917419	.999999809		.970201118	.999921013
3.8	.973795783	.4999926771	.999999831		.973410938	.999930558
3.9	.976605817	.4999935068	.999999851		.976282551	.999938071
4.0	.979120371	.4999942429	.999999868		.978850465	.999945171
4.1	.981369650	.4999948958	.999999883		.981145842	.999951459
4.2	.983350702	.4999954750	.999999897		.983196793	.999957030
4.3	.985170085	.4999959887	.999999908		.985028655	.999961963
4.4	.986730123	.4999964443	.999999919		.986664241	.999966333
4.5	.988220144	.4999968483	.999999928		.988124079	.999970202
4.6	.989501628	.4999972066	.999999937		.989426627	.999973628
4.7	.990600678	.4999975242	.999999944		.990588467	.999976662
4.8	.991550750	.4999978065	.999999950		.991624486	.999979348
4.9	.992277621	.4999980157	.999999956		.992548045	.999981726

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,.65)$	$\Gamma(U+15,.65)$	$\Gamma(U,.7)$	$\Gamma(U+.5,.7)$	$\Gamma(U+10,.7)$	$\Gamma(U+15,.7)$
0.0	.999983831	.999999966	.000000000	.993348216	.999984794	.999999911
0.1	.999985694	.999999970	.018690562	.994090327	.999986560	.999999914
0.2	.999987343	.999999974	.056030700	.994750726	.999988133	.999999917
0.3	.999988803	.999999977	.10311259	.995338254	.999989517	.999999920
0.4	.999990095	.999999980	.15549680	.995860820	.999990740	.999999922
0.5	.999991228	.999999982	.210363721	.996325443	.999991821	.999999924
0.6	.999992250	.999999984	.265811846	.996736009	.999992770	.999999926
0.7	.999993145	.999999986	.32255573	.997102749	.999993620	.999999928
0.8	.999993936	.999999988	.373641678	.997432010	.999994360	.999999929
0.9	.999994638	.999999989	.424532166	.997721806	.999995025	.999999931
1.0	.999995259	.999999990	.472824290	.997979327	.999995607	.999999932
1.1	.999995807	.999999991	.518233562	.998207960	.999996121	.999999933
1.2	.999996292	.999999992	.560632049	.998410976	.999996575	.999999934
1.3	.999996722	.999999993	.600417254	.998591192	.999996970	.999999934
1.4	.999997101	.999999994	.637588675	.998751146	.999997330	.999999935
1.5	.999997437	.999999995	.670929879	.998893001	.999997643	.999999936
1.6	.999997734	.999999995	.702055107	.999019034	.999997919	.999999936
1.7	.999997997	.999999996	.730598711	.999130760	.999998160	.999999937
1.8	.999998229	.999999996	.756707372	.999229807	.999998375	.999999937
1.9	.999998435	.999999997	.780534114	.999317744	.999998567	.999999937
2.0	.999998616	.999999997	.802233820	.999395672	.999998737	.999999938
2.1	.999998777	.999999998	.821759930	.999464752	.999998880	.999999938
2.2	.999998915	.999999998	.839562028	.999526008	.999999010	.999999938
2.3	.999999044	.999999998	.856084134	.999580291	.999999132	.999999938
2.4	.999999155	.999999998	.870763551	.999628399	.999999234	.999999938
2.5	.999999254	.999999999	.884300124	.999671027	.999999324	.999999938
2.6	.999999340	.999999999	.896005635	.999708795	.999999404	.999999938
2.7	.999999417	.999999999	.9060004637	.999742253	.999999474	.999999938
2.8	.999999485	.999999999	.916032472	.999771889	.999999530	.999999938
2.9	.999999545	.999999999	.925207432	.999798137	.999999590	.999999938
3.0	.999999598	.999999999	.933160017	.999821381	.999999639	.999999938
3.1	.999999645	.999999999	.940233458	.999841964	.999999681	.999999938
3.2	.999999686	.999999999	.946584008	.999860187	.999999719	.999999938
3.3	.999999723	.999999999	.952281744	.999876319	.999999752	.999999938
3.4	.999999755	1.000000000	.957390173	.999890600	.999999781	1.000000000
3.5	.999999783		.961967452	.999903240	.999999807	
3.6	.999999809		.966066392	.999914426	.999999830	
3.7	.999999831		.969734942	.999924325	.999999850	
3.8	.999999851		.973016566	.999933085	.999999867	
3.9	.999999868		.975950611	.999940835	.999999883	
4.0	.999999883		.97872652	.999947691	.999999897	
4.1	.999999897		.980914615	.999953756	.999999909	
4.2	.999999909		.983006082	.999959121	.999999920	
4.3	.999999920		.984872566	.999963866	.999999929	
4.4	.999999927		.986537786	.999968063	.999999938	
4.5	.999999937		.988022896	.999971774	.999999945	
4.6	.999999945		.989346705	.999975055	.999999952	
4.7	.999999951		.990526889	.999977957	.999999957	
4.8	.999999957		.991578176	.999980522	.999999962	
4.9	.999999962		.992514512	.999982790	.999999967	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

	$\Gamma(U+.75)$	$\Gamma(U+.75)$	$\Gamma(U+10+.75)$	$\Gamma(U+15+.75)$	$\Gamma(U+.8)$	$\Gamma(U+.8)$
0.0	.000000000	.993321970	.999985673	.999999974	.000000000	.993292521
0.1	.016593933	.994073054	.999987361	.999999977	.014727340	.994052896
0.2	.051393056	.994740890	.999988050	.999999980	.047123565	.994720319
0.3	.096315872	.995334455	.999990165	.999999983	.089939155	.995320099
0.4	.147049224	.995861876	.999991325	.999999985	.139020211	.995860553
0.5	.200757232	.996330400	.999992347	.999999988	.191537747	.996330107
0.6	.255577922	.996740521	.999993252	.999999990	.249406412	.996740300
0.7	.309603535	.997115985	.999994049	.999999992	.299419412	.997124279
0.8	.362500774	.997443965	.999994753	.999999994	.352315207	.997424115
0.9	.413397695	.997735041	.999995373	.999999996	.403449587	.997746020
1.0	.462500500	.997983312	.999995920	.999999997	.452331272	.997980571
1.1	.508418335	.998224428	.999996403	.999999998	.498643625	.998235410
1.2	.551400692	.998425537	.999996829	.999999999	.542202185	.998438915
1.3	.591046654	.998605834	.999997204	.999999999	.582922107	.998619181
1.4	.628926477	.998765593	.999997535	.999999999	.620792944	.998778029
1.5	.663339052	.998907207	.999997826	.999999999	.655559550	.998920185
1.6	.693222057	.999032715	.999998085	.999999999	.688204521	.999045331
1.7	.724276920	.999143924	.999998312	.999999999	.717940317	.999150597
1.8	.750963134	.999242452	.999998512	.999999999	.745197043	.999254119
1.9	.775330242	.999329729	.999998689	.999999999	.770115830	.999340046
2.0	.797555500	.999407027	.999998845	.999999999	.792040577	.999417513
2.1	.817780551	.999474477	.999998982	.999999999	.813530101	.999480436
2.2	.836107830	.999530782	.999999103	.999999999	.832322043	.999545422
2.3	.852739507	.999589733	.999999209	.999999999	.849363575	.999590516
2.4	.867793652	.999637222	.999999303	.999999999	.864793502	.999645434
2.5	.881401513	.999679290	.999999390	.999999999	.878743347	.999686904
2.6	.893506141	.999716441	.999999457	.999999999	.891330922	.999723550
2.7	.904476311	.999749346	.999999524	.999999999	.902697402	.999755946
2.8	.914742541	.999776457	.999999580	.999999999	.912920649	.999784507
2.9	.923722105	.999804206	.999999630	.999999999	.922134773	.999809052
3.0	.931795352	.999826981	.999999674	.999999999	.930410519	.999832187
3.1	.939047280	.999847121	.999999713	1.000000000	.937842508	.999851914
3.2	.945590270	.999866490	.999999747		.944511541	.999869335
3.3	.951394054	.999888075	.999999777		.950490951	.999884710
3.4	.956552673	.999904595	.999999804		.955847986	.999898501
3.5	.961312065	.999906899	.999999827		.960644003	.999910291
3.6	.965506368	.999917774	.999999846		.964934867	.999920876
3.7	.969258335	.999927385	.999999866		.968771345	.999930218
3.8	.972512733	.999935879	.999999882		.972199494	.999938462
3.9	.975510081	.999943383	.999999896		.975261030	.999945737
4.0	.978207050	.999950013	.999999909		.977993682	.999952157
4.1	.980576579	.999955870	.999999919		.980431529	.999957020
4.2	.982808835	.999961044	.999999929		.982605314	.999962816
4.3	.984710550	.999965614	.999999938		.984542739	.999967220
4.4	.986405914	.999969650	.999999945		.986268738	.999971110
4.5	.987916739	.999973215	.999999952		.987805734	.999974536
4.6	.989262600	.999976362	.999999957		.989173869	.999977561
4.7	.990461095	.999979141	.999999962		.990391224	.999980227
4.8	.991527974	.999981595	.999999967		.991474016	.999982577
4.9	.992477376	.999983761	.999999971		.992436777	.999984649

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO  $\Gamma(U,P)$ 

$U$	$\Gamma(U+10, .85)$	$\Gamma(U+15, .85)$	$\Gamma(U, .85)$	$\Gamma(U+5, .85)$	$\Gamma(U+10, .85)$	$\Gamma(U+15, .85)$
0.0	.999980475	.999999976	.999999999	.999259996	.999987217	.999999980
0.1	.999980335	.999999960	.999999999	.994029850	.999988748	.999999983
0.2	.999980104	.999999983	.999999999	.994713113	.999990102	.999999985
0.3	.999979755	.999999985	.999999999	.995319309	.999991294	.999999987
0.4	.999979185	.999999987	.999999999	.995856971	.999992342	.999999988
0.5	.999978229	.999999968	.999999999	.996333705	.999993265	.999999990
0.6	.999976954	.999999950	.999999999	.996750290	.999994077	.999999991
0.7	.999974433	.999999991	.999999999	.997130788	.999994792	.999999992
0.8	.999970503	.999999992	.999999999	.997462560	.999995420	.999999993
0.9	.999965008	.999999993	.999999999	.997750431	.999995973	.999999994
1.0	.999957623	.999999994	.999999999	.998010847	.999996460	.999999995
1.1	.999948657	.999999995	.999999999	.998247012	.999996887	.999999995
1.2	.999937057	.999999995	.999999999	.998450904	.999997264	.999999996
1.3	.999922712	.999999996	.999999999	.998631324	.999997595	.999999996
1.4	.999905710	.999999996	.999999999	.998780939	.999997880	.999999997
1.5	.999885773	.999999997	.999999999	.998902115	.999998142	.999999997
1.6	.999862233	.999999997	.999999999	.999000908	.999998367	.999999998
1.7	.999835445	.999999998	.999999999	.999167352	.999998565	.999999998
1.8	.999805322	.999999998	.999999999	.999264929	.999998739	.999999998
1.9	.999772796	.999999998	.999999999	.999351168	.999998892	.999999998
2.0	.999737740	.999999998	.999999999	.999427374	.999999026	.999999999
2.1	.999699030	.999999999	.999999999	.999494701	.999999144	.999999999
2.2	.999656730	.999999999	.999999999	.999554174	.999999240	.999999999
2.3	.999610270	.999999999	.999999999	.999606701	.999999335	.999999999
2.4	.999559305	.999999999	.999999999	.999653085	.999999420	.999999999
2.5	.999503441	.999999999	.999999999	.999694088	.999999490	.999999999
2.6	.999442705	.999999999	.999999999	.999730190	.999999552	.999999999
2.7	.999376265	.999999999	.999999999	.999762100	.999999607	.999999999
2.8	.999304020	.999999999	.999999999	.999790261	.999999654	.999999999
2.9	.999225665	.999999999	.999999999	.999815110	.999999697	1.000000000
3.0	.999140706	1.000000000	.999999999	.999837034	.999999735	.999999999
3.1	.999049741	.999999999	.999999999	.999856037	.999999766	.999999999
3.2	.998952772	.999999999	.999999999	.999872433	.999999794	.999999999
3.3	.998850800	.999999999	.999999999	.999886477	.999999819	.999999999
3.4	.998743824	.999999999	.999999999	.999898174	.999999841	.999999999
3.5	.998631845	.999999999	.999999999	.999908441	.999999861	.999999999
3.6	.998514864	.999999999	.999999999	.999917353	.999999878	.999999999
3.7	.998392880	.999999999	.999999999	.999924844	.999999893	.999999999
3.8	.998265895	.999999999	.999999999	.999930836	.999999900	.999999999
3.9	.998132907	.999999999	.999999999	.999935417	.999999917	.999999999
4.0	.997994919	.999999999	.999999999	.999939135	.999999927	.999999999
4.1	.997851928	.999999999	.999999999	.999941962	.999999936	.999999999
4.2	.997704937	.999999999	.999999999	.999943952	.999999944	.999999999
4.3	.997552945	.999999999	.999999999	.999945077	.999999951	.999999999
4.4	.997395951	.999999999	.999999999	.999945356	.999999957	.999999999
4.5	.997232957	.999999999	.999999999	.999944757	.999999962	.999999999
4.6	.997064962	.999999999	.999999999	.999943264	.999999967	.999999999
4.7	.996891967	.999999999	.999999999	.999940878	.999999971	.999999999
4.8	.996713971	.999999999	.999999999	.999937546	.999999974	.999999999
4.9	.996530974	.999999999	.999999999	.999933263	.999999978	.999999999



TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, .9)$	$\Gamma(U+.5, .9)$	$\Gamma(U+1.0, .9)$	$\Gamma(U+1.5, .9)$	$\Gamma(U, .95)$	$\Gamma(U+.5, .95)$
0.0	.000000000	.993224587	.999987885	.999999983	.000000000	.993186156
0.1	.011588108	.994004092	.999989356	.999999985	.010273765	.993975699
0.2	.039579947	.994595391	.999990650	.999999987	.036256068	.994675253
0.3	.078351657	.995308194	.999991787	.999999988	.073096797	.995294854
0.4	.124145962	.995851237	.999992786	.999999990	.117266356	.995843450
0.5	.174208977	.996332310	.999993564	.999999991	.166075142	.996329017
0.6	.226464372	.996758355	.999994335	.999999992	.217462142	.996758658
0.7	.279434954	.997135557	.999995113	.999999993	.269855122	.997138698
0.8	.331920816	.997469421	.999995769	.999999994	.322067249	.997474763
0.9	.383109454	.997764846	.999996232	.999999995	.373217061	.997771856
1.0	.432410170	.998026188	.999996692	.999999995	.422665143	.998034424
1.1	.479416129	.998257321	.999997096	.999999996	.469963477	.998266416
1.2	.523867679	.998461667	.999997451	.999999996	.514814683	.998471340
1.3	.565616830	.998642342	.999997762	.999999997	.557039151	.998652308
1.4	.604501492	.998802000	.999998036	.999999997	.596548519	.998812082
1.5	.640824571	.998943071	.999998276	.999999998	.633324295	.998953111
1.6	.674337338	.999067691	.999998487	.999999998	.667400664	.999077566
1.7	.705225228	.999177756	.999998672	.999999998	.698850706	.999187369
1.8	.733502402	.999274946	.999998835	.999999998	.727775395	.999284226
1.9	.759593537	.999360749	.999998977	.999999999	.754294868	.999369645
2.0	.783537400	.999436486	.999999103	.999999999	.778541547	.999444961
2.1	.804976888	.999503525	.999999213	.999999999	.800654761	.999511357
2.2	.824656216	.999552301	.999999309	.999999999	.820776587	.999569876
2.3	.842518058	.9995914329	.999999394	.999999999	.839048684	.999621445
2.4	.858701407	.999660220	.999999468	.999999999	.855609922	.999666881
2.5	.873340072	.999700692	.999999534	.999999999	.870594642	.999706905
2.6	.886561616	.999736378	.999999591	.999999999	.884131438	.999742157
2.7	.898486682	.999767839	.999999641	1.000000000	.896342336	.999773200
2.8	.909228501	.999795572	.999999685		.907342288	.999800533
2.9	.918893233	.999820014	.999999724		.917258926	.999824594
3.0	.927576974	.999841553	.999999758		.926132489	.999845773
3.1	.935576893	.999860531	.999999788		.934115914	.999864412
3.2	.942370559	.999877251	.999999814		.941275015	.999880812
3.3	.948636344	.999891978	.999999837		.947688758	.999895242
3.4	.954249761	.999904948	.999999857		.953429571	.999907935
3.5	.959269834	.999916371	.999999875		.958563706	.999919100
3.6	.963757482	.999926428	.999999890		.963151608	.999928918
3.7	.967766305	.999935283	.999999904		.967248299	.999937552
3.8	.971344974	.999943078	.999999915		.970903761	.999945143
3.9	.974537598	.999949938	.999999926		.974163312	.999951816
4.0	.977384022	.999955977	.999999935		.977067967	.999957682
4.1	.979920516	.999961290	.999999943		.979654789	.999962838
4.2	.982179405	.999965966	.999999950		.981957223	.999967368
4.3	.984190075	.999970079	.999999956		.984005400	.999971349
4.4	.985978911	.999973698	.999999962		.985826441	.999974847
4.5	.987569628	.999976881	.999999966		.987444720	.999977920
4.6	.988953526	.999979680	.999999971		.988882124	.999980619
4.7	.990239713	.999982143	.999999974		.990158282	.999982990
4.8	.991355316	.999984308	.999999977		.991290786	.999985072
4.9	.992345672	.999986211	.999999980		.992295382	.999986900

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+10, .95)$	$\Gamma(U+15, .95)$	$\Gamma(U, .1)$	$\Gamma(U+5, .1)$	$\Gamma(U+10, .1)$	$\Gamma(U+15, .1)$
0.0	.999988505	.999999985	.000000000	.993145035	.999989077	.999999986
0.1	.999988915	.999999987	.009105360	.993944771	.999990429	.999999988
0.2	.999991152	.999999988	.033200578	.994652792	.999991614	.999999990
0.3	.999992238	.999999990	.068173678	.995279380	.999992653	.999999991
0.4	.999993192	.999999991	.110736534	.995833698	.999993564	.999999992
0.5	.999994029	.999999992	.158279093	.996323912	.999994363	.999999993
0.6	.999994763	.999999993	.208747714	.996757288	.999995063	.999999994
0.7	.999995407	.999999994	.260543806	.997140292	.999995676	.999999995
0.8	.999995972	.999999995	.312439522	.997478674	.999996213	.999999995
0.9	.999996469	.999999995	.363507780	.997777540	.999996684	.999999996
1.0	.999996904	.999999996	.413064052	.998041429	.999997090	.999999996
1.1	.999997285	.999999996	.460619511	.998274368	.999997458	.999999997
1.2	.999997620	.999999997	.505059722	.998479931	.999997774	.999999997
1.3	.999997914	.999999997	.548513482	.998661288	.999998052	.999999998
1.4	.999998171	.999999998	.590526058	.998821247	.999998295	.999999998
1.5	.999998397	.999999998	.625837186	.998962298	.999998507	.999999998
1.6	.999998595	.999999998	.660463506	.999080647	.999998693	.999999998
1.7	.999998769	.999999998	.692464252	.999196246	.999998857	.999999999
1.8	.999998921	.999999999	.721929725	.999292822	.999998999	.999999999
1.9	.999999055	.999999999	.748972073	.999377905	.999999124	.999999999
2.0	.999999172	.999999999	.773717957	.999452845	.999999234	.999999999
2.1	.999999274	.999999999	.796502770	.999518639	.999999330	.999999999
2.2	.999999364	.999999999	.816866136	.999575942	.999999413	.999999999
2.3	.999999443	.999999999	.835548435	.999628089	.999999487	.999999999
2.4	.999999512	.999999999	.852408179	.999673103	.999999551	.999999999
2.5	.999999573	.999999999	.867820060	.999712713	.999999607	1.000000000
2.6	.999999626	1.000000000	.881673550	.999747560	.999999657	
2.7	.999999672		.894171937	.999778213	.999999700	
2.8	.999999713		.905431701	.999805171	.999999737	
2.9	.999999748		.915562168	.999828877	.999999770	
3.0	.999999780		.924665371	.999849718	.999999799	
3.1	.999999807		.932836070	.999868038	.999999824	
3.2	.999999831		.940161898	.999884140	.999999846	
3.3	.999999852		.946723593	.999898290	.999999866	
3.4	.999999871		.952595290	.999910723	.999999883	
3.5	.999999887		.957844861	.999921645	.999999897	
3.6	.999999901		.962534278	.999931240	.999999910	
3.7	.999999913		.966719984	.999939666	.999999922	
3.8	.999999924		.970453279	.999947066	.999999931	
3.9	.999999933		.973780693	.999953563	.999999940	
4.0	.999999942		.976744351	.999959268	.999999948	
4.1	.999999949		.979382326	.999964275	.999999954	
4.2	.999999955		.981728976	.999968670	.999999960	
4.3	.999999961		.983815260	.999972527	.999999965	
4.4	.999999966		.985669040	.999975912	.999999969	
4.5	.999999970		.987315355	.999978802	.999999973	
4.6	.999999974		.988776685	.999981487	.999999977	
4.7	.999999977		.990073189	.999983773	.999999980	
4.8	.999999980		.991222925	.999985777	.999999982	
4.9	.999999982		.992242057	.999987535	.999999984	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U,1.05)$	$I(U+5,1.05)$	$I(U+10,1.05)$	$I(U+15,1.05)$	$I(U,1.1)$	$I(U+5,1.1)$
0.0	.000000000	.993101226	.999989605	.999999988	.000000000	.993054805
0.1	.008067080	.993911392	.999990903	.999999989	.007144778	.993875636
0.2	.030392834	.994628090	.999992040	.999999991	.027813685	.994601221
0.3	.063562985	.995261852	.999993035	.999999992	.059246407	.995242345
0.4	.104540819	.995822062	.999993907	.999999993	.098664104	.995808615
0.5	.150809237	.996317075	.999994670	.999999994	.143654251	.996308577
0.6	.200333213	.996754323	.999995338	.999999995	.192210847	.996749831
0.7	.251496174	.997140415	.999995922	.999999995	.242707382	.99719134
0.8	.303035130	.997481224	.999996433	.999999996	.293851507	.997482482
0.9	.353981277	.997781967	.999996881	.999999996	.344636650	.997785200
1.0	.403607882	.998047270	.999997273	.999999997	.394296176	.998052010
1.1	.451385525	.998281242	.999997615	.999999997	.442262172	.998287098
1.2	.496944174	.998487523	.999997915	.999999998	.488129391	.998494173
1.3	.540041356	.998669340	.999998177	.999999998	.531624298	.998676521
1.4	.580535639	.998829552	.999998406	.999999998	.572578801	.998837048
1.5	.618364674	.998970688	.999998607	.999999998	.610908208	.998978329
1.6	.653527137	.999094988	.999998783	.999999999	.646592856	.999102635
1.7	.686067954	.999204425	.999998936	.999999999	.679662935	.999211980
1.8	.716066294	.999300780	.999999070	.999999999	.710186037	.999308141
1.9	.743625872	.999385572	.999999187	.999999999	.738257019	.999392686
2.0	.768867182	.999460179	.999999290	.999999999	.763989813	.999467001
2.1	.791921325	.999525811	.999999380	.999999999	.787510869	.999532309
2.2	.812925152	.999583536	.999999458	.999999999	.808953955	.999589690
2.3	.832017497	.999634295	.999999526	.999999999	.828456084	.999640093
2.4	.849336285	.999678920	.999999586	1.000000000	.846154373	.999684360
2.5	.865016372	.999718144	.999999639		.862183644	.999723229
2.6	.879187953	.999752616	.999999684		.876674666	.999757350
2.7	.891975456	.999782904	.999999724		.889752878	.999787299
2.8	.903496790	.999809513	.999999759		.901537518	.999813581
2.9	.913862902	.999832885	.999999790		.912141076	.999836640
3.0	.923177558	.999853409	.999999816		.921668993	.999856868
3.1	.931537302	.999871431	.999999840		.930219553	.999874610
3.2	.939031554	.999887253	.999999860		.937883932	.999890168
3.3	.945742806	.999901140	.999999878		.944746353	.999903809
3.4	.951746886	.999913329	.999999893		.950884324	.999915767
3.5	.957113281	.999924024	.999999907		.956368940	.999926248
3.6	.961905484	.999933407	.999999919		.961265214	.999935434
3.7	.966181365	.999941639	.999999929		.965632442	.999943483
3.8	.969993545	.999948860	.999999938		.969524569	.999950534
3.9	.973389771	.999955192	.999999946		.972990565	.999956711
4.0	.976413283	.999960744	.999999953		.976074794	.999962122
4.1	.979103173	.999965613	.999999959		.978817369	.999966860
4.2	.981494720	.999969881	.999999964		.981254501	.999971008
4.3	.983619717	.999973622	.999999969		.983418823	.999974640
4.4	.985506774	.999976901	.999999973		.985339703	.999977820
4.5	.987181603	.999979774	.999999976		.987043530	.999980603
4.6	.988667285	.999982292	.999999979		.988553992	.999983038
4.7	.989984512	.999984497	.999999982		.989892321	.999985170
4.8	.991151816	.999986430	.999999984		.991077530	.999987035
4.9	.992185780	.999988122	.999999986		.992126626	.999988666

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,1.1)$	$\Gamma(U+15,1.1)$	$\Gamma(U,1.15)$	$\Gamma(U+5,1.15)$	$\Gamma(U+10,1.15)$	$\Gamma(U+15,1.15)$
0.0	.999990093	.999999989	.000000000	.993005840	.999990545	.999999990
0.1	.999991341	.999999991	.006325802	.993837572	.999991747	.999999992
0.2	.999992433	.999999992	.025445375	.994572254	.999992797	.999999993
0.3	.999993388	.999999993	.055206595	.995220927	.999993713	.999999994
0.4	.999994223	.999999994	.093091841	.995793422	.999994514	.999999994
0.5	.999994952	.999999995	.136803084	.996298482	.999995213	.999999995
0.6	.999995590	.999999995	.184372914	.996743879	.999995823	.999999995
0.7	.999996148	.999999996	.234172568	.997136511	.999996356	.999999996
0.8	.999996636	.999999996	.284886029	.997482506	.999996821	.999999997
0.9	.999997062	.999999997	.335472922	.997787298	.999997227	.999999997
1.0	.999997434	.999999997	.385129332	.998055703	.999997582	.999999998
1.1	.999997759	.999999998	.433250454	.998291988	.999997891	.999999998
1.2	.999998043	.999999998	.479396698	.998499932	.999998161	.999999998
1.3	.999998292	.999999998	.523263818	.998682877	.999998396	.999999998
1.4	.999998509	.999999998	.564657086	.998843783	.999998602	.999999999
1.5	.999998698	.999999999	.603469255	.998985264	.999998781	.999999999
1.6	.999998863	.999999999	.639661990	.999109630	.999998937	.999999999
1.7	.999999008	.999999999	.673250346	.999218923	.999999074	.999999999
1.8	.999999134	.999999999	.704289922	.999314944	.999999193	.999999999
1.9	.999999244	.999999999	.732866302	.999399284	.999999296	.999999999
2.0	.999999341	.999999999	.759086470	.999473345	.999999387	.999999999
2.1	.999999425	.999999999	.783071874	.999538365	.999999465	.999999999
2.2	.999999498	.999999999	.804952886	.999595435	.999999534	1.000000000
2.3	.999999562	1.000000000	.824864435	.999645514	.999999594	
2.4	.999999618		.842942592	.999689451	.999999646	
2.5	.999999667		.859321961	.999727989	.999999692	
2.6	.999999709		.874133722	.999761786	.999999732	
2.7	.999999746		.887504197	.999791419	.999999766	
2.8	.999999779		.899553854	.999817395	.999999796	
2.9	.999999807		.910396645	.999840161	.999999823	
3.0	.999999832		.920139624	.999860111	.999999846	
3.1	.999999853		.928882770	.999877590	.999999865	
3.2	.999999872		.936718981	.999892901	.999999883	
3.3	.999999888		.943734189	.999906310	.999999898	
3.4	.999999903		.950007569	.999918052	.999999911	
3.5	.999999915		.955611813	.999928332	.999999923	
3.6	.999999926		.960613453	.999937331	.999999933	
3.7	.999999936		.965073210	.999945208	.999999941	
3.8	.999999944		.969046357	.999952101	.999999949	
3.9	.999999951		.972583092	.999958132	.999999956	
4.0	.999999957		.975728906	.999963408	.999999961	
4.1	.999999963		.978524947	.999968023	.999999964	
4.2	.999999968		.981008360	.999972060	.999999971	
4.3	.999999972		.983212627	.999975590	.999999975	
4.4	.999999975		.985167879	.999978676	.999999978	
4.5	.999999979		.986901192	.999981374	.999999981	
4.6	.999999981		.988436866	.999983733	.999999983	
4.7	.999999984		.989796680	.999985794	.999999985	
4.8	.999999986		.991000133	.999987596	.999999987	
4.9	.999999988		.992064661	.999989170	.999999989	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, 1.2)$	$\Gamma(U+5, 1.2)$	$\Gamma(U+10, 1.2)$	$\Gamma(U+15, 1.2)$	$\Gamma(U, 1.25)$	$\Gamma(U+5, 1.25)$
0.0	.000000000	.992954391	.999990965	.999999991	.000000000	.992900514
0.1	.005598849	.993797261	.999992123	.999999993	.004953801	.993754759
0.2	.023271446	.994541249	.999993133	.999999993	.021276653	.994508264
0.3	.051427113	.995197658	.999994014	.999999994	.047892404	.995172594
0.4	.087810027	.995776545	.999994783	.999999995	.082805189	.995759039
0.5	.130244951	.996286852	.999995453	.999999996	.123969332	.996273739
0.6	.176811798	.996736520	.999996039	.999999996	.169519975	.996727811
0.7	.225886861	.997132602	.999996548	.999999997	.217845375	.997127459
0.8	.276136010	.997481352	.999996992	.999999997	.267598702	.997479069
0.9	.326489043	.997788314	.999997380	.999999998	.317683885	.997788295
1.0	.376107448	.998058401	.999997718	.999999998	.367230548	.998060150
1.1	.424351218	.998295962	.999998012	.999999998	.415565251	.998299065
1.2	.470747377	.998504846	.999998269	.999999998	.462182673	.998508959
1.3	.514961411	.998688456	.999998492	.999999999	.506718544	.998693295
1.4	.556772029	.998849800	.999998687	.999999999	.548925161	.998855137
1.5	.596049289	.998991536	.999998857	.999999999	.588649776	.998997183
1.6	.632735878	.999116012	.999999005	.999999999	.625815877	.999121817
1.7	.666831363	.999225299	.999999133	.999999999	.660407179	.999231142
1.8	.698378943	.999321223	.999999246	.999999999	.692454119	.999327011
1.9	.727454537	.999405398	.999999343	.999999999	.722022566	.999411058
2.0	.754157803	.999479242	.999999428	.999999999	.749204485	.999484721
2.1	.778604839	.999544008	.999999503	1.000000000	.774110289	.999549265
2.2	.800922318	.999600798	.999999567		.796862642	.999605806
2.3	.821242810	.999650583	.999999623		.817591491	.999655323
2.4	.839701115	.999694217	.999999672		.836430134	.999698680
2.5	.856431425	.999732451	.999999715		.853512152	.999736633
2.6	.871565168	.999765946	.999999752		.868969064	.999769848
2.7	.885229423	.999795283	.999999784		.882928572	.999798911
2.8	.897545779	.999820974	.999999812		.895513282	.999824335
2.9	.908629572	.999843467	.999999837		.906839824	.999846572
3.0	.918589404	.999863156	.999999858		.917018289	.999866016
3.1	.927526902	.999880387	.999999875		.926151899	.999883016
3.2	.935536651	.999895465	.999999893		.934336893	.999897875
3.3	.942706270	.999908657	.999999907		.941662549	.999910861
3.4	.949116582	.999920195	.999999919		.948211324	.999922208
3.5	.954841871	.999930286	.999999929		.954059081	.999932120
3.6	.959950181	.999939110	.999999939		.959275375	.999940779
3.7	.964503659	.999946824	.999999947		.963923774	.999948340
3.8	.968558908	.999953567	.999999954		.968062218	.999954942
3.9	.972167360	.999959461	.999999960		.971743374	.999960706
4.0	.975375640	.999964611	.999999965		.975015008	.999965738
4.1	.978225933	.999969111	.999999970		.977920348	.999970129
4.2	.980756330	.999973042	.999999973		.980498438	.999973961
4.3	.983001167	.999976476	.999999977		.982784477	.999977304
4.4	.984991347	.999979474	.999999980		.984810146	.999980220
4.5	.986754638	.999982093	.999999983		.986603913	.999982764
4.6	.988315961	.999984379	.999999985		.988191324	.999984962
4.7	.989697647	.999986375	.999999987		.989595269	.999986917
4.8	.990919684	.999988117	.999999989		.990836235	.999988603
4.9	.991999945	.999989638	.999999990		.991932533	.999990074

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U+10,1.25)$	$I(U+15,1.25)$	$I(U,1.3)$	$I(U+5,1.3)$	$I(U+10,1.3)$	$I(U+15,1.3)$
0.0	.999991355	.999999992	.000000000	.992844258	.999991718	.999999993
0.1	.999992472	.999999993	.004381648	.993710117	.999992797	.999999994
0.2	.999993445	.999999994	.019446879	.994473349	.999993735	.999999995
0.3	.999994294	.999999994	.044587743	.995145786	.999994553	.999999995
0.4	.999995032	.999999996	.078064370	.995737952	.999995264	.999999996
0.5	.999995676	.999999996	.117965975	.996259191	.999995882	.999999997
0.6	.999996237	.999999997	.162490016	.996717799	.999996420	.999999997
0.7	.999996725	.999999997	.210043221	.997121130	.999996889	.999999997
0.8	.999997150	.999999998	.259271300	.997475702	.999997296	.999999998
0.9	.999997520	.999999998	.309056244	.997787287	.999997650	.999999998
1.0	.999997843	.999999998	.358498587	.998060993	.999997958	.999999998
1.1	.999998123	.999999998	.406893278	.998301337	.999998226	.999999999
1.2	.999998367	.999999999	.453703782	.998512309	.999998459	.999999999
1.3	.999998580	.999999999	.498536656	.998697436	.999998661	.999999999
1.4	.999998765	.999999999	.541117994	.998859830	.999998837	.999999999
1.5	.999998926	.999999999	.581272204	.999002236	.999998990	.999999999
1.6	.999999066	.999999999	.618903350	.999127076	.999999123	.999999999
1.7	.999999188	.999999999	.653979006	.999236483	.999999238	.999999999
1.8	.999999294	.999999999	.686516489	.999332337	.999999338	.999999999
1.9	.999999386	.999999999	.716571254	.999416292	.999999426	1.000000000
2.0	.999999467	1.000000000	.744227217	.999489806	.999999501	
2.1	.999999536		.769588772	.999554160	.999999567	
2.2	.999999597		.792774275	.999610479	.999999624	
2.3	.999999650		.813910780	.999659756	.999999674	
2.4	.999999696		.833129854	.999702859	.999999717	
2.5	.999999736		.850564274	.999740554	.999999754	
2.6	.999999770		.866345484	.999773511	.999999787	
2.7	.999999800		.880601674	.999802319	.999999815	
2.8	.999999827		.893456357	.999827494	.999999839	
2.9	.999999849		.905027377	.999849491	.999999861	
3.0	.999999869		.915426239	.999868706	.999999879	
3.1	.999999886		.924757716	.999885487	.999999895	
3.2	.999999901		.933119660	.999900141	.999999909	
3.3	.999999914		.940602982	.999912933	.999999921	
3.4	.999999926		.947291754	.999924099	.999999932	
3.5	.999999934		.953263411	.999933844	.999999941	
3.6	.999999944		.958589008	.999942346	.999999949	
3.7	.999999951		.963333540	.999949764	.999999955	
3.8	.999999958		.967556279	.999956233	.999999961	
3.9	.999999963		.971311134	.999961875	.999999966	
4.0	.999999968		.974647017	.999966794	.999999971	
4.1	.999999972		.977608208	.999971083	.999999975	
4.2	.999999976		.980234708	.999974821	.999999978	
4.3	.999999979		.982562587	.999978079	.999999981	
4.4	.999999982		.984624310	.999980917	.999999984	
4.5	.999999984		.986449054	.999983391	.999999986	
4.6	.999999986		.988062997	.999985545	.999999988	
4.7	.999999988		.989489594	.999987422	.999999989	
4.8	.999999990		.990749834	.999989056	.999999991	
4.9	.999999991		.991862474	.999990479	.999999992	

TABLE I (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,1.35)$	$\Gamma(U+5,1.35)$	$\Gamma(U+10,1.35)$	$\Gamma(U+15,1.35)$	$\Gamma(U,1.4)$	$\Gamma(U+5,1.4)$
0.0	.000000000	.992785669	.999992057	.999999494	.000000000	.992724787
0.1	.003874329	.993663379	.999993099	.999999995	.003424657	.993614587
0.2	.017769058	.994436547	.999994006	.999999995	.016231102	.994397903
0.3	.041499206	.995117278	.999994794	.999999996	.038613627	.995087114
0.4	.073575115	.995716331	.999995478	.999999996	.069325459	.995692217
0.5	.112224886	.996243256	.999996074	.999999997	.106736337	.996225972
0.6	.155714590	.996706527	.999996591	.999999997	.149186465	.996694036
0.7	.202475504	.997113655	.999997040	.999999998	.195137331	.997105076
0.8	.251150944	.997471294	.999997431	.999999998	.243234718	.997465882
0.9	.300604839	.997785329	.999997770	.999999998	.292328315	.997782458
1.0	.349911424	.998060969	.999998065	.999999999	.341468871	.998060113
1.1	.398335950	.998302815	.999998320	.999999999	.389893886	.998303535
1.2	.445311854	.998514933	.999998542	.999999999	.437007980	.998516864
1.3	.490417154	.998700911	.999998735	.999999999	.482361409	.998703750
1.4	.533352027	.998863912	.999998903	.999999999	.525628735	.998867413
1.5	.573918040	.999006729	.999999048	.999999999	.566588747	.999010689
1.6	.611999667	.999131820	.999999174	.999999999	.605106199	.999136074
1.7	.647548067	.999241350	.999999284	.999999999	.641115595	.999245768
1.8	.680567109	.999337226	.999999379	1.000000000	.674607050	.999341703
1.9	.711101485	.999421125	.999999462		.705614163	.999425579
2.0	.739226719	.999494522	.999999533		.734203729	.999498890
2.1	.765040857	.999558714	.999999595		.760467132	.999562949
2.2	.788657650	.999614840	.999999649		.784513221	.999618908
2.3	.810200997	.999663901	.999999696		.806462478	.999667776
2.4	.829800501	.999706775	.999999736		.826442313	.999710442
2.5	.847587937	.999744232	.999999771		.844583302	.999747682
2.6	.863694512	.999776950	.999999802		.861016245	.999780179
2.7	.878248765	.999805520	.999999828		.875869894	.999808530
2.8	.891375009	.999830464	.999999851		.889269248	.999833258
2.9	.903192208	.999852236	.999999871		.901334304	.999854820
3.0	.913813210	.999871236	.999999888		.912179197	.999873618
3.1	.923344308	.999887813	.999999903		.921911634	.999890002
3.2	.931884903	.999902273	.999999916		.930632577	.999904281
3.3	.939527521	.999914884	.999999927		.938436120	.999916720
3.4	.946357830	.999925879	.999999937		.945409509	.999927556
3.5	.952454823	.999935465	.999999946		.951633279	.999936992
3.6	.957891052	.999943821	.999999953		.957181476	.999945208
3.7	.962732934	.999951107	.999999959		.962121933	.999952361
3.8	.967041077	.999957446	.999999965		.966516597	.999958587
3.9	.970870634	.999962972	.999999969		.970421870	.999964004
4.0	.974271672	.999967786	.999999973		.973888970	.999968718
4.1	.977289523	.999971978	.999999977		.976964299	.999972818
4.2	.979965156	.999975627	.999999980		.979689796	.999976385
4.3	.982335518	.999978805	.999999983		.982103290	.999979486
4.4	.984433868	.999981570	.999999985		.984238843	.999982183
4.5	.986290095	.999983977	.999999987		.986127062	.999984527
4.6	.987931013	.999986072	.999999989		.987795413	.999986565
4.7	.989380659	.999987894	.999999990		.989268500	.999988336
4.8	.990660521	.999989479	.999999992		.990568335	.999989674
4.9	.991789811	.999990858	.999999993		.991714582	.999991211

TABLE 1 (CONTINUED):

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,1.4)$	$\Gamma(U+15,1.4)$	$\Gamma(U,1.45)$	$\Gamma(U+5,1.45)$	$\Gamma(U+10,1.45)$	$\Gamma(U+15,1.45)$
0.0	.999992373	.999999994	.000000000	.992661647	.990992668	.009999995
0.1	.999993381	.999999995	.009076221	.993563770	.990993645	.009999996
0.2	.999994257	.999999996	.014821835	.994357454	.990994492	.009999996
0.3	.999995018	.999999996	.035918567	.995055330	.990995227	.009999997
0.4	.999995678	.999999997	.065303914	.995668647	.990995865	.009999997
0.5	.999996252	.999999997	.101499860	.996207378	.990996417	.009999998
0.6	.999996740	.999999998	.142898514	.996680362	.990996896	.009999998
0.7	.999997181	.999999998	.188023810	.997095428	.990997312	.009999998
0.8	.999997556	.999999998	.235519556	.997459502	.990997672	.009999998
0.9	.999997881	.999999998	.284225242	.997778708	.990997984	.009999999
1.0	.999998162	.999999999	.333170640	.998058458	.990998254	.009999999
1.1	.999998402	.990999999	.381567582	.998303527	.990998480	.009999999
1.2	.999998620	.990999999	.428793205	.998518131	.990998692	.009999999
1.3	.999998804	.990999999	.474370752	.998705984	.990998868	.009999999
1.4	.999998964	.990999999	.517949571	.998870360	.990999020	.009999999
1.5	.999999107	.990999999	.559285777	.999014142	.990999152	.009999999
1.6	.999999222	.990999999	.598224318	.999139865	.990999266	1.000000000
1.7	.999999326	1.000000000	.634682830	.999249760	.990999365	
1.8	.999999416		.668637396	.999345790	.990999451	
1.9	.999999494		.700110206	.999429675	.990999525	
2.0	.999999562		.729159004	.999502931	.990999589	
2.1	.999999621		.755868202	.999566883	.990999644	
2.2	.999999672		.780341458	.999622698	.990999692	
2.3	.999999716		.802695578	.999671397	.990999734	
2.4	.999999754		.823055545	.999713876	.990999770	
2.5	.999999787		.841550540	.999750919	.990999801	
2.6	.999999816		.858310788	.999783213	.990999828	
2.7	.999999840		.873465116	.999811361	.990999851	
2.8	.999999862		.887139092	.999835887	.990999872	
2.9	.999999880		.899453655	.999857254	.990999889	
3.0	.999999897		.910524145	.999875863	.990999904	
3.1	.999999910		.920459653	.999892767	.990999917	
3.2	.999999923		.929362637	.999906174	.990999928	
3.3	.999999933		.937328734	.999918452	.990999938	
3.4	.999999942		.944446746	.999929136	.990999946	
3.5	.999999950		.950798741	.999938431	.990999954	
3.6	.999999957		.956460245	.999946516	.990999960	
3.7	.999999962		.961500511	.999953547	.990999966	
3.8	.999999968		.965982819	.999959661	.990999970	
3.9	.999999972		.969964825	.999964975	.990999974	
4.0	.999999976		.973498909	.999969595	.990999978	
4.1	.999999979		.976632539	.999973609	.990999981	
4.2	.999999982		.979408635	.999977096	.990999983	
4.3	.999999984		.981865917	.999980126	.990999986	
4.4	.999999986		.984039253	.999982758	.990999988	
4.5	.999999988		.985959980	.999985043	.990999989	
4.6	.999999990		.987656215	.999987027	.990999991	
4.7	.999999991		.989151148	.999988749	.990999992	
4.8	.999999992		.990473308	.999990245	.990999993	
4.9	.999999993		.991636823	.999991542	.990999994	



TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, 1.5)$	$\Gamma(U+5, 1.5)$	$\Gamma(U+10, 1.5)$	$\Gamma(U+15, 1.5)$	$\Gamma(U, 1.55)$	$\Gamma(U+5, 1.55)$
0.0	.000000000	.992596283	.999992944	.999999995	.000000000	.992528723
0.1	.002673305	.993510987	.999993891	.999999996	.002360815	.993456241
0.2	.013530927	.994315233	.999994712	.999999997	.012348832	.994271272
0.3	.033402278	.995021961	.999995423	.999999997	.031053668	.994987038
0.4	.061499453	.995642657	.999996038	.999999997	.057901501	.995615276
0.5	.096479243	.996187508	.999996572	.999999998	.091692533	.996166391
0.6	.136843716	.996665540	.999997034	.999999998	.131015162	.996649599
0.7	.181130062	.997084743	.999997434	.999999998	.174451217	.997073052
0.8	.228002745	.997452185	.999997780	.999999999	.220680929	.997443961
0.9	.276294117	.997774110	.999998080	.999999999	.268533368	.997768693
1.0	.325016376	.998056033	.999998339	.999999999	.317005644	.998052868
1.1	.373357502	.998302821	.999998564	.999999999	.365264029	.998301442
1.2	.420668511	.998518763	.999998758	.999999999	.412634825	.998518784
1.3	.466446472	.998707639	.999998926	.999999999	.458589816	.998708739
1.4	.510315961	.998872779	.999999072	.999999999	.502729301	.998874693
1.5	.552010568	.999017112	.999999198	1.000000000	.544764543	.999019622
1.6	.591355390	.999143214	.999999307		.584500778	.999146144
1.7	.628251017	.999253350	.999999401		.621821403	.999256555
1.8	.662659242	.999349507	.999999482		.656673688	.999352874
1.9	.694590546	.999433433	.999999553		.689056127	.999436871
2.0	.724093318	.999506661	.999999613		.719007456	.999510097
2.1	.751244590	.999570533	.999999666		.746597234	.999573914
2.2	.776142850	.999626229	.999999711		.771917897	.999629513
2.3	.798900664	.999674780	.999999751		.795078118	.999677938
2.4	.819640464	.999717092	.999999785		.816197351	.999720102
2.5	.838489835	.999753956	.999999814		.835401383	.999756803
2.6	.855578259	.999786064	.999999839		.852818786	.999788742
2.7	.871034495	.999814023	.999999861		.868578104	.999816527
2.8	.884984565	.999838363	.999999880		.882805698	.999840694
2.9	.897550255	.999859546	.999999897		.895624106	.999861707
3.0	.908848037	.999877979	.999999911		.907150854	.999879974
3.1	.918988330	.999894013	.999999923		.917497628	.999895849
3.2	.928075038	.999907959	.999999934		.926769738	.999909643
3.3	.936205315	.999920085	.999999943		.935065819	.999921626
3.4	.943469497	.999930626	.999999951		.942477715	.999932033
3.5	.949951166	.999939788	.999999957		.949090512	.999941068
3.6	.955727325	.999947749	.999999963		.954982676	.999948913
3.7	.960868637	.999954665	.999999968		.960226280	.999955721
3.8	.965439722	.999960673	.999999973		.964887279	.999961628
3.9	.969499487	.999965890	.999999976		.969025837	.999966753
4.0	.973101479	.999970420	.999999980		.972696669	.999971199
4.1	.976294241	.999974353	.999999982		.975949400	.999975054
4.2	.979121678	.999977766	.999999985		.978828926	.999978397
4.3	.981623409	.999980728	.999999987		.981375773	.999981294
4.4	.983835115	.999983298	.999999989		.983626440	.999983806
4.5	.985788869	.999985527	.999999990		.985613744	.999985983
4.6	.987513446	.999987461	.999999992		.987367126	.999987868
4.7	.989034627	.999989138	.999999993		.988912962	.999989502
4.8	.990375469	.999990591	.999999994		.990274843	.999990917
4.9	.991556565	.999991852	.999999995		.991473835	.999992142

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$

U	$\Gamma(U+10, 1.55)$	$\Gamma(U+15, 1.55)$	$\Gamma(U, 1.6)$	$\Gamma(U+5, 1.6)$	$\Gamma(U+10, 1.6)$	$\Gamma(U+15, 1.6)$
0.0	.999993203	.999999996	.000000000	.992450099	.999993446	.999999994
0.1	.999994122	.999999996	.002086716	.993399589	.999994338	.999999997
0.2	.999994917	.999999997	.011266739	.994225597	.999995109	.999999997
0.3	.999995605	.999999997	.028862273	.994950589	.999995776	.999999998
0.4	.999996201	.999999998	.054499918	.995586535	.999996352	.999999998
0.5	.999996716	.999999998	.087122033	.996144058	.999996850	.999999998
0.6	.999997161	.999999998	.125406056	.996632567	.999997281	.999999998
0.7	.999997547	.999999999	.167982425	.997060382	.999997653	.999999999
0.8	.999997880	.999999999	.213551111	.997434857	.999997974	.999999999
0.9	.999998169	.999999999	.260941355	.997762482	.999998252	.999999999
1.0	.999998418	.999999999	.309137936	.998048986	.999998491	.999999999
1.1	.999998633	.999999999	.357287477	.998299415	.999998698	.999999999
1.2	.999998820	.999999999	.404693013	.998518218	.999998877	.999999999
1.3	.999998981	.999999999	.450801986	.998709306	.999999031	.999999999
1.4	.999999120	.999999999	.495190954	.998876123	.999999154	.999999999
1.5	.999999240	1.000000000	.537549102	.999021692	.999999279	1.000000000
1.6	.999999344		.577661833	.999148672	.999999379	
1.7	.999999434		.615395235	.999259375	.999999464	
1.8	.999999511		.650681843	.999355907	.999999538	
1.9	.999999578		.683507905	.999440004	.999999602	
2.0	.999999636		.713902218	.999513256	.999999657	
2.1	.999999686		.741926485	.999577041	.999999704	
2.2	.999999729		.767667116	.999632566	.999999745	
2.3	.999999766		.791228338	.999680883	.999999780	
2.4	.999999798		.812726499	.999722917	.999999811	
2.5	.999999826		.832285392	.999759474	.999999837	
2.6	.999999850		.850032503	.999791258	.999999860	
2.7	.999999871		.866096024	.999818884	.999999879	
2.8	.999999888		.880602529	.999842890	.999999896	
2.9	.999999904		.893675212	.999863744	.999999910	
3.0	.999999917		.905432577	.999881856	.999999923	
3.1	.999999928		.915987515	.999897583	.999999933	
3.2	.999999938		.925446696	.999911234	.999999943	
3.3	.999999947		.933910199	.999923082	.999999951	
3.4	.999999954		.941471356	.999933361	.999999958	
3.5	.999999961		.948216736	.999942278	.999999963	
3.6	.999999966		.954226261	.999950012	.999999969	
3.7	.999999971		.959573406	.999956717	.999999973	
3.8	.999999975		.964325463	.999962530	.999999977	
3.9	.999999978		.968543853	.999967568	.999999980	
4.0	.999999981		.972284464	.999971933	.999999983	
4.1	.999999984		.975598008	.999975715	.999999985	
4.2	.999999986		.978530378	.999978991	.999999987	
4.3	.999999988		.981123011	.999981828	.999999989	
4.4	.999999990		.983413237	.999984285	.999999991	
4.5	.999999991		.985434617	.999986411	.999999992	
4.6	.999999992		.987217269	.999988252	.999999993	
4.7	.999999993		.988788172	.999989845	.999999994	
4.8	.999999994		.990171453	.999991223	.999999995	
4.9	.999999995		.991388656	.999992415	.999999996	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, V)$ 

$U$	$\Gamma(U, 1.65)$	$\Gamma(U, 1.65) / \Gamma(U, 1.65)$	$\Gamma(U, 1.65) / \Gamma(U, 1.65)$	$\Gamma(U, 1.65) / \Gamma(U, 1.65)$	$\Gamma(U, 1.71)$	$\Gamma(U, 1.71)$
0.0	.000000000	.992387115	.999993675	.999999997	.000000000	.992313110
0.1	.001277468	.997340795	.999996541	.999999997	.001622970	.993280535
0.2	.010276514	.994178235	.999998290	.999999997	.009370652	.994129206
0.3	.026818226	.994912640	.999995935	.999999998	.024912224	.994873214
0.4	.051284989	.995556457	.999996495	.999999998	.048247412	.995525067
0.5	.082759295	.996120533	.999996975	.999999998	.078596125	.996095840
0.6	.120009715	.996614471	.999997393	.999999999	.114819582	.996595332
0.7	.161718854	.997046754	.999997752	.999999999	.155655702	.997032205
0.8	.206610159	.997424897	.999998061	.999999999	.199854907	.997414105
0.9	.253516375	.997755502	.999998325	.999999999	.246256654	.997747775
1.0	.301412668	.998044411	.999998560	.999999999	.293829185	.998039164
1.1	.349426087	.998296763	.999998759	.999999999	.341686033	.998293507
1.2	.396843882	.998517087	.999998930	.999999999	.389088178	.998515410
1.3	.443084134	.998709362	.999999078	1.000000000	.435437367	.998708924
1.4	.487702254	.998877086	.999999205		.480264495	.998877608
1.5	.530365630	.999023340	.999999316		.523215484	.999024584
1.6	.570839900	.999150817	.999999411		.564036310	.999152596
1.7	.608973758	.999261886	.999999492		.602558213	.999264044
1.8	.644684819	.999358623	.999999563		.638683731	.999361036
1.9	.677946842	.999442847	.999999624		.672373910	.999445415
2.0	.708778416	.999516150	.999999676		.703636819	.999518794
2.1	.737233108	.999579928	.999999721		.732517778	.999582585
2.2	.763391035	.999635398	.999999760		.759090197	.999638022
2.3	.787351732	.999683628	.999999793		.783448721	.999686183
2.4	.809228212	.999725550	.999999822		.805702807	.999728009
2.5	.829142077	.999761977	.999999847		.825971667	.999764322
2.6	.847219557	.999793620	.999999868		.844380102	.999795839
2.7	.863588341	.999821100	.999999887		.861055153	.999823186
2.8	.878375101	.999844958	.999999902		.876123464	.999846907
2.9	.891703584	.999865665	.999999916		.889709236	.999867477
3.0	.903693192	.999883633	.999999928		.901932689	.999885210
3.1	.914457961	.999899219	.999999938		.912908939	.999900766
3.2	.924105870	.999912737	.999999947		.922747223	.999914157
3.3	.932738411	.999924457	.999999954		.931550409	.999925758
3.4	.940450372	.999934617	.999999961		.939414718	.999935805
3.5	.947329792	.999943422	.999999966		.946429636	.999944504
3.6	.953458037	.999951051	.999999971		.952677963	.999952033
3.7	.958909979	.999957613	.999999975		.958235961	.999958550
3.8	.963754244	.999963382	.999999978		.963173589	.999964188
3.9	.968053511	.999968337	.999999981		.967554787	.999969065
4.0	.971864847	.999972627	.999999984		.971437798	.999973283
4.1	.975240052	.999976340	.999999986		.974875522	.999976930
4.2	.978226027	.999979552	.999999988		.977915866	.999980082
4.3	.980865124	.999982332	.999999990		.980602109	.999982807
4.4	.983195500	.999984735	.999999991		.982973259	.999985162
4.5	.985251490	.999986815	.999999993		.985064395	.999987196
4.6	.987063891	.999988613	.999999994		.986906999	.999988953
4.7	.988660273	.999990167	.999999994		.988529277	.999990471
4.8	.990065317	.999991511	.999999995		.989956451	.999991781
4.9	.991301051	.999992672	.999999996		.991211037	.999992913

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

$U$	$\Gamma(U+10, 1.7)$	$\Gamma(U+15, 1.7)$	$\Gamma(U, 1.75)$	$\Gamma(U+5, 1.75)$	$\Gamma(U+10, 1.75)$	$\Gamma(U+15, 1.75)$
0.0	.9999933889	.9999999997	.9999999999	.9922369999	.999994091	.999999997
0.1	.999994732	.999999997	.9999999997	.993218221	.999994912	.999999998
0.2	.999995459	.999999998	.9999999998	.994078532	.999995619	.999999998
0.3	.999996087	.999999998	.9999999998	.994832331	.999996228	.999999998
0.4	.999996628	.999999998	.9999999998	.995492386	.999996753	.999999998
0.5	.999997095	.999999999	.9999999999	.996070001	.999997205	.999999999
0.6	.999997497	.999999999	.9999999999	.996575174	.999997595	.999999999
0.7	.999997844	.999999999	.9999999999	.997016741	.999997931	.999999999
0.8	.999998143	.999999999	.9999999999	.997402498	.999998220	.999999999
0.9	.999998401	.999999999	.9999999999	.997739320	.999998469	.999999999
1.0	.999998623	.999999999	.9999999999	.998033265	.999998683	.999999999
1.1	.999998815	.999999999	.9999999999	.998289664	.999998867	.999999999
1.2	.999998980	.999999999	.9999999999	.998513206	.999999026	1.000000000
1.3	.999999122	1.000000000	.9999999999	.998708011	.999999163	
1.4	.999999244		.9999999999	.998877698	.999999280	
1.5	.999999350		.9999999999	.999025440	.999999381	
1.6	.999999440		.9999999999	.999154023	.999999468	
1.7	.999999519		.9999999999	.999265884	.999999543	
1.8	.999999586		.9999999999	.999363160	.999999607	
1.9	.999999644		.9999999999	.999447720	.999999663	
2.0	.999999694		.9999999999	.999521199	.999999710	
2.1	.999999737		.9999999999	.999585025	.999999751	
2.2	.999999774		.9999999999	.999640448	.999999786	
2.3	.999999805		.9999999999	.999688557	.999999816	
2.4	.999999833		.9999999999	.999730304	.999999842	
2.5	.999999856		.9999999999	.999766518	.999999865	
2.6	.999999876		.9999999999	.999797922	.999999884	
2.7	.999999894		.9999999999	.999825147	.999999900	
2.8	.999999909		.9999999999	.999848743	.999999914	
2.9	.999999922		.9999999999	.999869186	.999999926	
3.0	.999999933		.9999999999	.999886893	.999999937	
3.1	.999999942		.9999999999	.999902227	.999999946	
3.2	.999999950		.9999999999	.999915501	.999999954	
3.3	.999999957		.9999999999	.999926989	.999999960	
3.4	.999999963		.9999999999	.999936929	.999999966	
3.5	.999999968		.9999999999	.999945527	.999999971	
3.6	.999999973		.9999999999	.999952963	.999999975	
3.7	.999999977		.9999999999	.999959393	.999999978	
3.8	.999999980		.9999999999	.999964950	.999999982	
3.9	.999999983		.9999999999	.999969753	.999999984	
4.0	.999999985		.9999999999	.999973903	.999999986	
4.1	.999999987		.9999999999	.999977487	.999999988	
4.2	.999999989		.9999999999	.999980583	.999999990	
4.3	.999999991		.9999999999	.999983256	.999999991	
4.4	.999999992		.9999999999	.999985564	.999999993	
4.5	.999999993		.9999999999	.999987556	.999999994	
4.6	.999999994		.9999999999	.999989275	.999999995	
4.7	.999999995		.9999999999	.999990758	.999999995	
4.8	.999999996		.9999999999	.999992037	.999999996	
4.9	.999999996		.9999999999	.999993140	.999999997	

TABLE I (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, 1.8)$	$\Gamma(U+5, 1.8)$	$\Gamma(U+10, 1.8)$	$\Gamma(U+15, 1.8)$	$\Gamma(U, 1.8^*)$	$\Gamma(U+5, 1.8^*)$
0.0	.000000000	.992158786	.999994282	.999999977	.000000000	.992078494
0.1	.001262300	.993154057	.999995081	.999999998	.001112742	.993088067
0.2	.007784877	.994026230	.999995768	.999999998	.007092706	.993972315
0.3	.021479809	.994790010	.999996361	.999999998	.019937373	.994746268
0.4	.042669072	.995458432	.999996871	.999999999	.040111644	.995423224
0.5	.070836978	.996043033	.999997309	.999999999	.067225755	.996014956
0.6	.105032288	.996554015	.999997687	.999999999	.100422619	.996531872
0.7	.144111588	.997000397	.999998012	.999999999	.138621184	.996983160
0.8	.186888713	.997390079	.999998291	.999999999	.180671317	.997376924
0.9	.232225668	.997730157	.999998532	.999999999	.225450576	.997720303
1.0	.279984606	.998026733	.999998739	.999999999	.271921853	.998019583
1.1	.326554276	.998285254	.999998916	1.000000000	.319164574	.998280291
1.2	.373859727	.998510492	.999999069		.366388166	.998507283
1.3	.420361253	.998706639	.999999201		.412933889	.998704823
1.4	.465546806	.998877374	.999999313		.458269282	.998876651
1.5	.509020487	.999025923	.999999411		.501978227	.999026045
1.6	.550489408	.999155112	.999999494		.543748683	.999155877
1.7	.589749859	.999267418	.999999566		.583359501	.999268658
1.8	.626673833	.999365007	.999999627		.620667254	.999366588
1.9	.661196348	.999449774	.999999680		.655593684	.999451588
2.0	.693303876	.999523375	.999999725		.688114109	.999525335
2.1	.723024017	.999587259	.999999764		.718246989	.999589294
2.2	.750416469	.999642686	.999999798		.746044716	.999644745
2.3	.775565223	.999690761	.999999827		.771585632	.999692802
2.4	.798571451	.999732444	.999999851		.794967204	.999734435
2.5	.819550520	.999768572	.999999872		.816300285	.999770492
2.6	.838622324	.999799876	.999999891		.835704352	.999801708
2.7	.855912675	.999826992	.999999906		.853303613	.999828726
2.8	.871547799	.999850472	.999999920		.869223879	.999852101
2.9	.885552454	.999870798	.999999931		.883590093	.999872319
3.0	.898348304	.999888389	.999999941		.896524419	.999889801
3.1	.909752387	.999903608	.999999949		.908144814	.999904914
3.2	.919976317	.999916771	.999999957		.918563986	.999917973
3.3	.929125590	.999928153	.999999963		.927888686	.999929256
3.4	.937299209	.999937993	.999999968		.936219262	.999939001
3.5	.944589500	.999946497	.999999973		.943649426	.999947415
3.6	.951082088	.999953844	.999999977		.950266197	.999954679
3.7	.956855996	.999960191	.999999980		.956149966	.999960948
3.8	.961983837	.999965672	.999999983		.961374666	.999966357
3.9	.966532072	.999970405	.999999985		.966008019	.999971022
4.0	.970561313	.999974490	.999999987		.970111825	.999975046
4.1	.974126652	.999978015	.999999989		.973742294	.999978515
4.2	.977278066	.999981057	.999999991		.976950399	.999981506
4.3	.980060671	.999983681	.999999992		.979782230	.999984083
4.4	.982515189	.999985944	.999999993		.982279359	.999986304
4.5	.984678241	.999987896	.999999994		.984479192	.999988217
4.6	.986582707	.999989578	.999999995		.986415313	.999989865
4.7	.988258039	.999991078	.999999996		.988117811	.999991284
4.8	.989730580	.999992279	.999999996		.989613596	.999992505
4.9	.991023843	.999993354	.999999997		.990926688	.999993556

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U+10, 1.85)$	$\Gamma(U+15, 1.85)$	$\Gamma(U, 1.9)$	$\Gamma(U+5, 1.9)$	$\Gamma(U+10, 1.9)$	$\Gamma(U+15, 1.9)$
0.0	.9999999999	.9999999999	.0000000000	.9919996132	.9999994631	.9999999999
0.1	.9999995240	.9999999999	.000980639	.993770249	.9999995390	.9999999999
0.2	.9999995910	.9999999999	.006460309	.993916802	.9999996043	.9999999999
0.3	.9999996486	.9999999999	.018500287	.994701118	.9999996604	.9999999999
0.4	.9999996981	.9999999999	.037698209	.995386775	.9999997085	.9999999999
0.5	.9999997407	.9999999999	.063783799	.995985785	.9999997499	.9999999999
0.6	.9999997771	.9999999999	.095994138	.996508753	.9999997854	.9999999999
0.7	.9999998088	.9999999999	.13312718	.996965077	.9999998160	.9999999999
0.8	.9999998359	.9999999999	.174526725	.997362989	.9999998422	.9999999999
0.9	.9999998571	.9999999999	.218833127	.997709773	.9999998647	.9999999999
1.0	.9999998791	.9999999999	.264897580	.998011831	.9999998840	1.0000000000
1.1	.9999998967	1.0000000000	.311892211	.998274791	.9999999005	
1.2	.9999999110		.359012404	.998503594	.9999999147	
1.3	.9999999236		.405581523	.998702577	.9999999269	
1.4	.9999999345		.451047510	.998875542	.9999999374	
1.5	.9999999438		.494974475	.999025821	.9999999463	
1.6	.9999999518		.537031472	.999156329	.9999999540	
1.7	.9999999587		.576979974	.999269617	.9999999606	
1.8	.9999999646		.614661073	.999367915	.9999999663	
1.9	.9999999696		.649983082	.999453171	.9999999711	
2.0	.9999999740		.682909965	.999527086	.9999999753	
2.1	.9999999777		.713450811	.999591142	.9999999788	
2.2	.9999999809		.741650480	.999646634	.9999999819	
2.3	.9999999836		.767581429	.999694688	.9999999845	
2.4	.9999999850		.791336697	.999736287	.9999999867	
2.5	.9999999860		.813023959	.999772285	.9999999886	
2.6	.9999999869		.832760572	.999803425	.9999999903	
2.7	.9999999872		.850669498	.999830354	.9999999917	
2.8	.9999999874		.866876017	.999853635	.9999999929	
2.9	.9999999875		.881505107	.999873754	.9999999939	
3.0	.9999999875		.894679408	.999891136	.9999999948	
3.1	.9999999873		.906517685	.999906148	.9999999955	
3.2	.9999999869		.917133694	.999919111	.9999999962	
3.3	.9999999865		.926635398	.999930300	.9999999967	
3.4	.9999999860		.935124457	.999939955	.9999999972	
3.5	.9999999855		.942695951	.999948285	.9999999976	
3.6	.9999999848		.949438275	.999955470	.9999999980	
3.7	.9999999841		.955433179	.999961665	.9999999983	
3.8	.9999999834		.960755914	.999967005	.9999999985	
3.9	.9999999826		.965475458	.999971608	.9999999987	
4.0	.9999999818		.969654803	.999975573	.9999999989	
4.1	.9999999810		.973351270	.999978989	.9999999991	
4.2	.9999999801		.976616864	.999981931	.9999999992	
4.3	.9999999793		.979498624	.999984464	.9999999993	
4.4	.9999999784		.982038990	.999986645	.9999999994	
4.5	.9999999775		.984276157	.999988521	.9999999995	
4.6	.9999999765		.986244421	.999990136	.9999999996	
4.7	.9999999756		.987974515	.999991525	.9999999996	
4.8	.9999999747		.989493921	.999992720	.9999999997	
4.9	.9999999737		.990827172	.999993747	.9999999997	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

$U$	$I(U,1.95)$	$I(U+5,1.95)$	$I(U+10,1.95)$	$I(U+15,1.95)$	$I(U,2)$	$I(U+5,2)$
0.0	.000000000	.991911708	.999994791	.999999998	.000000000	.991825229
0.1	.000563965	.992950628	.997995532	.999999998	.000760958	.992879201
0.2	.005882701	.993859703	.999996168	.999999999	.005355297	.993801027
0.3	.017163476	.994654576	.999996715	.999999999	.015918679	.994606650
0.4	.035421331	.995349101	.999997183	.999999999	.033273908	.995310213
0.5	.060504079	.995955534	.999997586	.999999999	.057379536	.995924716
0.6	.091740907	.996484700	.999997931	.999999999	.087657117	.996459698
0.7	.128180376	.996946152	.999998227	.999999999	.123220789	.996926398
0.8	.168751672	.997348308	.999998481	.999999999	.163042886	.997332895
0.9	.212371290	.997698581	.999998699	1.000000000	.206062994	.997686742
1.0	.258010800	.998003491	.999998885		.251260466	.997994577
1.1	.304737022	.998268767	.999999046		.297698779	.998262233
1.2	.351732881	.998499437	.999999183		.344549978	.998494874
1.3	.398305020	.998699913	.999999300		.391105180	.998696843
1.4	.443882594	.998874059	.999999401		.436775597	.998872213
1.5	.488010454	.999025261	.999999487		.481087360	.999024376
1.6	.530339023	.999156480	.999999561		.523672561	.999156339
1.7	.570512481	.999270305	.999999625		.564258211	.999270731
1.8	.608656798	.999369998	.999999679		.602654334	.999369845
1.9	.644365530	.999454535	.999999725		.638742018	.999455686
2.0	.677692290	.999528638	.999999765		.672461970	.999529998
2.1	.708636206	.999592809	.999999799		.703803901	.999594304
2.2	.737234350	.999648359	.999999828		.732796928	.999649929
2.3	.763553084	.999696427	.999999853		.759501080	.999698025
2.4	.787680805	.999738005	.999999874		.783999902	.999739595
2.5	.809721815	.999773956	.999999893		.806394135	.999775513
2.6	.829791178	.999805032	.999999908		.826796372	.999806535
2.7	.848010460	.999831884	.999999922		.845326636	.999833319
2.8	.864504281	.999855078	.999999933		.862108754	.999856436
2.9	.879397544	.999875106	.999999943		.877267447	.999876382
3.0	.892813279	.999892396	.999999951		.890926042	.999893586
3.1	.904870985	.999907316	.999999958		.903204700	.999908420
3.2	.915685410	.999920188	.999999964		.914219103	.999921207
3.3	.925365684	.999931289	.999999969		.924079504	.999932226
3.4	.934014750	.999940660	.999999974		.932890093	.999941718
3.5	.941729029	.999949111	.999999978		.940748609	.999949894
3.6	.948598276	.999956221	.999999981		.947746153	.999956933
3.7	.954705592	.999962345	.999999984		.953967160	.999962991
3.8	.960127539	.999967621	.999999986		.959489501	.999968205
3.9	.964934354	.999972163	.999999988		.964384669	.999972690
4.0	.969190216	.999976073	.999999990		.968718033	.999976548
4.1	.972953566	.999979439	.999999991		.972549154	.999979865
4.2	.976277441	.999982334	.999999993		.975932110	.999982717
4.3	.979209839	.999984825	.999999994		.978915858	.999985168
4.4	.981704072	.999986967	.999999995		.981544592	.999987274
4.5	.984069130	.999988809	.999999995		.983858104	.999989083
4.6	.986070031	.999990393	.999999996		.985892137	.999990636
4.7	.987828153	.999991754	.999999997		.987678724	.999991971
4.8	.989371560	.999992923	.999999997		.989246517	.999993116
4.9	.990725304	.999993928	.999999998		.990621089	.999994099

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

	$\Gamma(U+10, 2)$	$\Gamma(U+15, 2)$	$\Gamma(U, 2, 0.5)$	$\Gamma(U+5, 2, 0.5)$	$\Gamma(U+10, 2, 0.5)$	$\Gamma(U+15, 2, 0.5)$
0.0	.999994742	.999999998	.000000000	.991736702	.999995086	.999999998
0.1	.999995665	.999999998	.000670045	.992605997	.999995792	.999999998
0.2	.999996287	.999999997	.004877887	.993740784	.999996390	.999999999
0.3	.999996827	.999999996	.014767427	.994557353	.999996915	.999999999
0.4	.999997274	.999999995	.031249164	.995274123	.999997364	.999999999
0.5	.999997667	.999999993	.054404536	.995891842	.999997745	.999999999
0.6	.999997999	.999999990	.084737777	.996443765	.999998077	.999999999
0.7	.999998266	.999999986	.118479904	.996935827	.999998357	.999999999
0.8	.999998477	.999999981	.157497777	.997316767	.999998589	1.000000000
0.9	.999998648	1.000000000	.199976120	.997614266	.999998794	
1.0	.999998775		.246464474	.997985707	.999998904	
1.1	.999998867		.297777777	.998255194	.999999011	
1.2	.999998924		.353444777	.998489777	.999999127	
1.3	.999998957		.413782777	.998693777	.999999257	
1.4	.999998967		.479777777	.998877777	.999999397	
1.5	.999998957		.547420777	.999027777	.999999557	
1.6	.999998924		.617022204	.999155977	.999999730	
1.7	.999998867		.687918767	.999270977	.999999915	
1.8	.999998794		.756655979	.999370467	.999999970	
1.9	.999998718		.823112534	.999456674	.999999975	
2.0	.999998777		.887219844	.999531177	.999999977	
2.1	.999998860		.948956531	.999595434	.999999981	
2.2	.999998937		.1028338822	.999651240	.999999984	
2.3	.999998986		.155425904	.999699488	.999999986	
2.4	.999998988		.2080294372	.999741064	.999999987	
2.5	.999998989		.2603041207	.999776959	.999999989	
2.6	.999998991		.3127776365	.999807938	.999999991	
2.7	.999998992		.3642618169	.999834664	.999999993	
2.8	.999998993		.4159689525	.999857713	.999999994	
2.9	.999998994		.4675114863	.999877584	.999999995	
3.0	.999998995		.5189017711	.999894709	.999999995	
3.1	.999998996		.5691518821	.999909464	.999999996	
3.2	.999998996		.6177734747	.999922172	.999999996	
3.3	.999998997		.6622776820	.999933114	.999999997	
3.4	.999998997		.7031750443	.999942532	.999999997	
3.5	.999998997		.739754646	.999950637	.999999998	
3.6	.999998998		.7746881856	.999957609	.999999998	
3.7	.999998998		.8073217836	.999963605	.999999998	
3.8	.999998998		.838841757	.999968760	.999999998	
3.9	.999998998		.867826364	.999973191	.999999999	
4.0	.999998999		.894238221	.999976999	.999999999	
4.1	.999998999		.917138007	.999980270	.999999999	
4.2	.999998999		.935580847	.999983080	.999999999	
4.3	.999998999		.948616664	.999985493	.999999999	
4.4	.999998999		.9561290538	.999987564	.999999999	
4.5	.999998999		.958643071	.999989342	.999999999	
4.6	.999998999		.95710736	.999990867	.999999999	
4.7	.999998999		.95262228	.999992176	.999999999	
4.8	.999998999		.949118791	.999993298	.999999999	
4.9	.999998999		.940514529	.999994261	.999999999	



TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,2.1)$	$\Gamma(U+5,2.1)$	$\Gamma(U+10,2.1)$	$\Gamma(U+15,2.1)$	$\Gamma(U,2.15)$	$\Gamma(U+5,2.15)$
0.0	.000000000	.991646130	.999995222	.999999998	.000000000	.991553516
0.1	.000589830	.992731000	.999995913	.999999999	.000519076	.992654223
0.2	.004434570	.993678982	.999996506	.999999999	.004033804	.993615627
0.3	.013683017	.994506693	.999997012	.999999999	.012681097	.994454676
0.4	.029340640	.995228839	.999997446	.999999999	.027542169	.995186371
0.5	.051371865	.995858424	.999997817	.999999999	.048875732	.995823969
0.6	.079975279	.996406922	.999998135	.999999999	.076366266	.996379168
0.7	.113800669	.996884451	.999998407	.999999999	.109331271	.996862279
0.8	.152111005	.997299920	.999998639	1.000000000	.146881359	.997282379
0.9	.193898547	.997661165	.999998837		.188038068	.997647449
1.0	.238164667	.997975070	.999999007		.231816834	.997964498
1.1	.283971902	.998247677	.999999152		.277282505	.998239676
1.2	.330475259	.998484283	.999999276		.323583911	.998478371
1.3	.376938447	.998689528	.999999382		.369972892	.998685303
1.4	.422739400	.998867474	.999999473		.415812116	.998864600
1.5	.467368571	.999021671	.999999550		.460575107	.999019870
1.6	.510422404	.999155222	.999999616		.503841062	.999154262
1.7	.551594035	.999270833	.999999673		.545286440	.999270526
1.8	.590662424	.999370868	.999999721		.584674755	.999371059
1.9	.627481067	.999457385	.999999762		.621845603	.999457947
2.0	.661966787	.999532177	.999999797		.656703668	.999533008
2.1	.694089136	.999596805	.999999827		.689208160	.999597824
2.2	.723860645	.999652627	.999999852		.719363019	.999653767
2.3	.751328057	.999700823	.999999874		.747208040	.999702034
2.4	.776564605	.999742417	.999999893		.772810999	.999743659
2.5	.799663329	.999778301	.999999909		.796260804	.999779543
2.6	.820731372	.999809247	.999999922		.817561618	.999810465
2.7	.839885209	.999835924	.999999934		.837127911	.999837102
2.8	.857246690	.999858912	.999999943		.854780349	.999860038
2.9	.872939841	.999878716	.999999952		.870742439	.999879782
3.0	.887088304	.999895770	.999999959		.885137840	.999896771
3.1	.899813339	.999910451	.999999965		.898088250	.999911384
3.2	.911232316	.999923086	.999999970		.909711787	.999923951
3.3	.921457595	.999933955	.999999975		.920121792	.999934753
3.4	.930595755	.999943304	.999999978		.929425984	.999944036
3.5	.938747090	.999951342	.999999982		.937725894	.999952011
3.6	.946005337	.999958251	.999999984		.945116548	.999958860
3.7	.952457574	.999964187	.999999987		.951686326	.999964741
3.8	.958184264	.999969287	.999999989		.957516976	.999969788
3.9	.963259401	.999973667	.999999990		.962683740	.999974119
4.0	.967750744	.999977428	.999999992		.967255566	.999977835
4.1	.971720094	.999980655	.999999993		.971295385	.999981021
4.2	.975223627	.999983425	.999999994		.974860424	.999983753
4.3	.978312236	.999985802	.999999995		.978002553	.999986095
4.4	.981031895	.999987840	.999999996		.980768645	.999988102
4.5	.983424018	.999989588	.999999996		.983200933	.999989822
4.6	.985525819	.999991086	.999999997		.985337378	.999991294
4.7	.987370660	.999992371	.999999997		.987212015	.999992556
4.8	.988988283	.999993471	.999999998		.988855290	.999993635
4.9	.990405628	.999994414	.999999998		.990294385	.999994560

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,2.15)$	$\Gamma(U+15,2.15)$	$\Gamma(U,2.2)$	$\Gamma(U+5,2.2)$	$\Gamma(U+10,2.2)$	$\Gamma(U+15,2.2)$
0.0	.999995351	.999999999	.000000000	.991458863	.999995473	.999999999
0.1	.999996027	.999999999	.000456685	.992575669	.999996135	.999999999
0.2	.999996606	.999999999	.003668307	.993550722	.999996701	.999999999
0.3	.999997101	.999999999	.011749646	.994401309	.999997185	.999999999
0.4	.999997524	.999999999	.025847883	.995142725	.999997598	.999999999
0.5	.999997886	.999999999	.046310254	.995788486	.999997951	.999999999
0.6	.999998196	.999999999	.072904763	.996350515	.999998253	.999999999
0.7	.999998460	1.000000000	.105016500	.996839320	.999998510	1.000000000
0.8	.999998686		.141804880	.997264148	.999998730	
0.9	.999998879		.182322484	.997633127	.999998917	
1.0	.999999043		.225600715	.997953393	.999999077	
1.1	.999999184		.270708530	.998231205	.999999214	
1.2	.999999304		.316790122	.998472044	.999999330	
1.3	.999999407		.363086698	.998680711	.999999429	
1.4	.999999494		.408946583	.998861401	.999999514	
1.5	.999999569		.453827029	.999017779	.999999586	
1.6	.999999632		.497290393	.999153046	.999999647	
1.7	.999999687		.538996691	.999269990	.999999700	
1.8	.999999733		.578694045	.999371045	.999999745	
1.9	.999999773		.616208124	.999458326	.999999783	
2.0	.999999806		.651431356	.999533676	.999999815	
2.1	.999999835		.684312451	.999598695	.999999843	
2.2	.999999859		.714846572	.999654776	.999999866	
2.3	.999999880		.743066366	.999703127	.999999886	
2.4	.999999898		.769033961	.999744794	.999999903	
2.5	.999999913		.792833946	.999780689	.999999918	
2.6	.999999926		.814567333	.999811597	.999999930	
2.7	.999999937		.834346437	.999838202	.999999940	
2.8	.999999947		.852290606	.999861095	.999999949	
2.9	.999999955		.868522715	.999880785	.999999957	
3.0	.999999961		.883166346	.999897715	.999999963	
3.1	.999999967		.896343552	.999912266	.999999969	
3.2	.999999972		.908173138	.999924770	.999999974	
3.3	.999999976		.918769377	.999935509	.999999978	
3.4	.999999980		.928241088	.999944731	.999999981	
3.5	.999999983		.936691011	.999952647	.999999984	
3.6	.999999985		.944215440	.999959440	.999999986	
3.7	.999999988		.950904045	.999965267	.999999988	
3.8	.999999989		.956839848	.999970265	.999999990	
3.9	.999999991		.962099337	.999974550	.999999992	
4.0	.999999992		.966752650	.999978222	.999999993	
4.1	.999999994		.970863847	.999981369	.999999994	
4.2	.999999994		.974491210	.999984066	.999999995	
4.3	.999999995		.977687593	.999986375	.999999996	
4.4	.999999996		.980500770	.999988352	.999999996	
4.5	.999999997		.982973803	.999990044	.999999997	
4.6	.999999997		.985145404	.999991492	.999999997	
4.7	.999999998		.987050287	.999992731	.999999998	
4.8	.999999998		.988719509	.999993791	.999999998	
4.9	.999999998		.990180799	.999994698	.999999998	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

$U$	$\Gamma(U, 2.25)$	$\Gamma(U+5, 2.25)$	$\Gamma(U+10, 2.25)$	$\Gamma(U+15, 2.25)$	$\Gamma(U, 2.3)$	$\Gamma(U+5, 2.3)$
0.0	.000000000	.991362162	.999995580	.999999999	.000000000	.991263433
0.1	.000401636	.992495339	.999996238	.999999999	.000353216	.992413236
0.2	.003335072	.993484274	.999996792	.999999999	.003031338	.993416283
0.3	.010883953	.994346598	.999997265	.999999999	.010079602	.994290546
0.4	.024252187	.995097909	.999997669	.999999999	.022749759	.995051925
0.5	.043869762	.995751981	.999998013	.999999999	.041548788	.995714462
0.6	.069585619	.996320971	.999998307	1.000000000	.066403806	.996290542
0.7	.100652074	.996815582	.999998558		.096833774	.996791073
0.8	.136878311	.997245236	.999998772		.132098403	.997225649
0.9	.175749558	.997618208	.999998954		.171317034	.997602699
1.0	.219515005	.997941764	.999999109		.213558354	.997929618
1.1	.264249454	.998222273	.999999242		.257904700	.998212887
1.2	.310093983	.998465311	.999999354		.303495534	.998458179
1.3	.356280408	.998675760	.999999451		.349554519	.998670457
1.4	.402143652	.998857884	.999999533		.395404133	.998854056
1.5	.447125370	.999015407	.999999602		.440471124	.999012760
1.6	.490771516	.999151579	.999999662		.484285518	.999149869
1.7	.532725905	.999269232	.999999712		.526475182	.999268258
1.8	.572721363	.999370833	.999999755		.566757764	.999370429
1.9	.610569610	.999458528	.999999792		.604931035	.999458560
2.0	.646150724	.999534185	.999999823		.640862640	.999534542
2.1	.679402763	.999599426	.999999850		.674479850	.999600020
2.2	.710311936	.999655658	.999999872		.705759750	.999656419
2.3	.738903555	.999704106	.999999891		.734720130	.999704976
2.4	.765233904	.999745828	.999999908		.761411246	.999746763
2.5	.789383072	.999781743	.999999922		.785908509	.999782709
2.6	.811448753	.999812647	.999999933		.808306123	.999813618
2.7	.831540954	.999839229	.999999943		.828711637	.999840184
2.8	.849777572	.999862084	.999999952		.847241362	.999863010
2.9	.866280735	.999881728	.999999959		.864016566	.999882613
3.0	.881173849	.999898605	.999999965		.879160381	.999899443
3.1	.894579245	.999913100	.999999971		.892795332	.999913887
3.2	.906616350	.999925545	.999999975		.905041404	.999926278
3.3	.917400316	.999936226	.999999979		.916014578	.999936905
3.4	.927041024	.999945390	.999999982		.925825750	.999946015
3.5	.935642393	.999953250	.999999985		.934579993	.999953824
3.6	.9433301965	.999959990	.999999987		.942376072	.999960513
3.7	.950110681	.999965767	.999999989		.949306187	.999966243
3.8	.956152835	.999970718	.999999991		.955455890	.999971149
3.9	.961506151	.999974959	.999999992		.960904138	.999975349
4.0	.966241959	.999978591	.999999993		.965723451	.999978942
4.1	.970425446	.999981701	.999999994		.969980147	.999982016
4.2	.974115957	.999984362	.999999995		.973734634	.999984645
4.3	.977367330	.999986640	.999999996		.977041740	.999986893
4.4	.980228250	.999988589	.999999997		.979951065	.999988815
4.5	.982742612	.999990255	.999999997		.982507342	.999990456
4.6	.984949884	.999991680	.999999998		.984750805	.999991859
4.7	.986885467	.999992898	.999999998		.986717546	.999993057
4.8	.988581035	.999993939	.999999998		.988439862	.999994080
4.9	.990064870	.999994829	.999999998		.989946592	.999994954

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U+10,2.3)$	$I(U+15,2.3)$	$I(U,2.35)$	$I(U+5,2.35)$	$I(U+10,2.35)$	$I(U+15,2.35)$
0.0	.999995699	.999999999	.000000000	.991162655	.999995804	.999999999
0.1	.999996335	.999999999	.000310513	.992329358	.999996428	.999999999
0.2	.999996878	.999999999	.002754573	.993346752	.999996959	.999999999
0.3	.999997341	.999999999	.009332454	.994233157	.999997412	.999999999
0.4	.999997735	.999999999	.021335532	.995004780	.999997798	.999999999
0.5	.999998072	.999999999	.039342064	.995675932	.999998127	1.000000000
0.6	.999998358	1.000000000	.063354432	.995259234	.999998407	
0.7	.999998603		.092957450	.996765798	.999998646	
0.8	.999998811		.127461925	.997205395	.999998848	
0.9	.999998988		.166022630	.997586608	.999999021	
1.0	.999999139		.207729368	.997916962	.999999168	
1.1	.999999268		.251673638	.998203054	.999999293	
1.2	.999999378		.296994759	.998450655	.999999399	
1.3	.999999471		.342909475	.998664810	.999999490	
1.4	.999999550		.388728792	.998849925	.999999567	
1.5	.999999618		.433865271	.999009846	.999999632	
1.6	.999999675		.477833462	.999147922	.999999688	
1.7	.999999724		.520245604	.999267073	.999999735	
1.8	.999999765		.560804294	.999369838	.999999775	
1.9	.999999801		.599293370	.999458425	.999999809	
2.0	.999999831		.635510176	.999534751	.999999838	
2.1	.999999856		.669544471	.999600482	.999999862	
2.2	.999999878		.701190655	.999657061	.999999883	
2.3	.999999896		.730516622	.999705740	.999999901	
2.4	.999999912		.757566415	.999747604	.999999916	
2.5	.999999925		.782410588	.999783591	.999999929	
2.6	.999999937		.805139691	.999814513	.999999940	
2.7	.999999946		.825858665	.999841072	.999999949	
2.8	.999999954		.844682098	.999863874	.999999957	
2.9	.999999961		.861730282	.999883444	.999999963	
3.0	.999999967		.877125977	.999900232	.999999969	
3.1	.999999972		.890991820	.999914629	.999999974	
3.2	.999999976		.903448287	.999926971	.999999978	
3.3	.999999980		.914612130	.999937548	.999999981	
3.4	.999999983		.924595227	.999946409	.999999984	
3.5	.999999986		.933503766	.999954368	.999999986	
3.6	.999999988		.941437713	.999961011	.999999989	
3.7	.999999990		.948490512	.999966696	.999999990	
3.8	.999999991		.954748965	.999971560	.999999992	
3.9	.999999993		.960293254	.999975719	.999999993	
4.0	.999999994		.965197088	.999979276	.999999994	
4.1	.999999995		.969527915	.999982317	.999999995	
4.2	.999999995		.973347210	.999984915	.999999996	
4.3	.999999996		.976710796	.999987134	.999999996	
4.4	.999999997		.979669192	.999989030	.999999997	
4.5	.999999997		.982267977	.999990648	.999999997	
4.6	.999999998		.984548155	.999992030	.999999998	
4.7	.999999998		.986546513	.999993209	.999999998	
4.8	.999999998		.988295982	.999994214	.999999998	
4.9	.999999999		.989825962	.999995072	.999999999	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,2.4)$	$\Gamma(U+5,2.4)$	$\Gamma(U+10,2.4)$	$\Gamma(U+15,2.4)$	$\Gamma(U,2.45)$	$\Gamma(U+5,2.45)$
0.0	.000000000	.991059830	.999995904	.999999999	.000000000	.990954954
0.1	.000272901	.992243705	.999996516	.999999999	.000239784	.992156275
0.2	.002502453	.993275681	.999997037	.999999999	.002272847	.993203070
0.3	.008638634	.994174432	.999997481	.999999999	.007994509	.994114373
0.4	.020004686	.994956476	.999997858	.999999999	.018752639	.994907016
0.5	.037244518	.995636397	.999998180	1.000000000	.035251268	.995595859
0.6	.060432734	.996227053	.999998453		.057634076	.996194002
0.7	.089219017	.996739763	.999998686		.085614460	.996712974
0.8	.122965664	.997184480	.999998884		.118606428	.997162908
0.9	.160864053	.997569939	.999999052		.155838991	.997552699
1.0	.202026617	.997903803	.999999195		.196448633	.997890145
1.1	.245555589	.998192781	.999999317		.239549827	.998182074
1.2	.290591591	.998442745	.999999420		.284285912	.998434454
1.3	.336345676	.998658823	.999999508		.329863470	.998652504
1.4	.382118354	.998845496	.999999582		.375573502	.998840775
1.5	.427308727	.999006668	.999999646		.420802392	.999003234
1.6	.471416385	.999145743	.999999699		.465035297	.999143338
1.7	.514038237	.999265684	.999999745		.507854127	.999264095
1.8	.554861987	.999369066	.999999784		.548931868	.999368117
1.9	.593657578	.999458129	.999999817		.588024619	.999457677
2.0	.630267600	.999534817	.999999845		.624962380	.999534744
2.1	.664597386	.999600817	.999999868		.659639356	.999601028
2.2	.696605300	.999657590	.999999888		.692004335	.999658009
2.3	.726293567	.999706404	.999999905		.722051508	.999706969
2.4	.753699843	.999748355	.999999920		.749811968	.999749018
2.5	.778889648	.999784392	.999999932		.775346035	.999785115
2.6	.801949715	.999815336	.999999943		.798736455	.999816089
2.7	.822982222	.999841895	.999999951		.820082499	.999842655
2.8	.842099905	.999864681	.999999959		.839494914	.999865431
2.9	.859421960	.999884222	.999999965		.857091682	.999884950
3.0	.875070676	.999900974	.999999970		.872994520	.999901672
3.1	.889168718	.999915330	.999999975		.887326038	.999915990
3.2	.901836985	.999927627	.999999979		.900207486	.999928247
3.3	.913192946	.999938158	.999999982		.911756997	.999938735
3.4	.923349415	.999947172	.999999985		.922088275	.999947706
3.5	.932413665	.999954885	.999999987		.931309644	.999955377
3.6	.940486840	.999961484	.999999989		.939523403	.999961934
3.7	.947663609	.999967127	.999999991		.946825428	.999967536
3.8	.954032012	.999971950	.999999992		.953304984	.999972322
3.9	.959673455	.999976073	.999999993		.959044694	.999976409
4.0	.964662828	.999979595	.999999994		.964120429	.999979898
4.1	.969068713	.999982603	.999999995		.968602132	.999982876
4.2	.972953653	.999985171	.999999996		.972553929	.999985416
4.3	.976374470	.999987364	.999999997		.976032734	.999987582
4.4	.979382609	.999989234	.999999997		.979091290	.999989430
4.5	.982024498	.999990831	.999999998		.981776883	.999991005
4.6	.984341916	.999992192	.999999998		.984132074	.999992347
4.7	.986372358	.999993353	.999999998		.986195068	.999993490
4.8	.988149386	.999994342	.999999999		.988000067	.999994464
4.9	.989702974	.999995185	.999999999		.989577621	.999995293

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,2.45)$	$\Gamma(U+15,2.45)$	$\Gamma(U,2.5)$	$\Gamma(U+5,2.5)$	$\Gamma(U+10,2.5)$	$\Gamma(U+15,2.5)$
0.0	.999995999	.999999999	.000000000	.990848023	.999996089	.999999999
0.1	.999996599	.999999999	.000210631	.992067065	.999996679	.999999999
0.2	.999997111	.999999999	.002063803	.993128918	.999997181	.999999999
0.3	.999997546	.999999999	.007396683	.994052980	.999997607	.999999999
0.4	.999997915	1.000000000	.017575037	.994856402	.999997970	1.000000000
0.5	.999998230		.033357616	.995554322	.999998277	
0.6	.999998497		.054953950	.996160085	.999998539	
0.7	.999998724		.092139837	.996685434	.999998761	
0.8	.999998917		.114381048	.997140685	.999998949	
0.9	.999999081		.150945123	.997534894	.999999109	
1.0	.999999221		.190993915	.997875996	.999999245	
1.1	.999999339		.233655580	.998170937	.999999360	
1.2	.999999440		.278077554	.998425790	.999999458	
1.3	.999999525		.323463159	.998645857	.999999541	
1.4	.999999597		.369094875	.998835766	.999999611	
1.5	.999999659		.414347128	.998999548	.999999671	
1.6	.999999711		.458691182	.999140712	.999999721	
1.7	.999999755		.501694300	.999262311	.999999764	
1.8	.999999792		.543014944	.999366996	.999999800	
1.9	.999999824		.582395443	.999457073	.999999831	
2.0	.999999851		.619653179	.999534536	.999999857	
2.1	.999999874		.654671143	.999601119	.999999879	
2.2	.999999893		.687388414	.999658321	.999999898	
2.3	.999999910		.717790990	.999707440	.999999913	
2.4	.999999923		.745903236	.999749597	.999999927	
2.5	.999999935		.771780098	.999785763	.999999938	
2.6	.999999945		.795500180	.999816774	.999999948	
2.7	.999999954		.817159694	.999843355	.999999956	
2.8	.999999961		.836867261	.999866128	.999999963	
2.9	.999999967		.854739533	.999885631	.999999968	
3.0	.999999972		.870897555	.999902326	.999999973	
3.1	.999999976		.885463795	.999916612	.999999977	
3.2	.999999980		.898559782	.999928832	.999999981	
3.3	.999999983		.910304257	.999939281	.999999984	
3.4	.999999986		.920811770	.999948212	.999999986	
3.5	.999999988		.930191660	.999955843	.999999989	
3.6	.999999990		.938547354	.999962361	.999999990	
3.7	.999999991		.945975919	.999967926	.999999992	
3.8	.999999993		.952567833	.999972677	.999999993	
3.9	.999999994		.958406925	.999976730	.999999994	
4.0	.999999995		.963570448	.999980188	.999999995	
4.1	.999999996		.968129245	.999983136	.999999996	
4.2	.999999996		.972148005	.999985649	.999999997	
4.3	.999999997		.975685557	.999987791	.999999997	
4.4	.999999997		.978795210	.999989616	.999999998	
4.5	.999999998		.981525112	.999991171	.999999998	
4.6	.999999998		.983918611	.999992494	.999999998	
4.7	.999999998		.986014628	.999993621	.999999999	
4.8	.999999999		.987848012	.999994580	.999999999	
4.9	.999999999		.989449896	.999995395	.999999999	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,2.55)$	$\Gamma(U+5,2.55)$	$\Gamma(U+10,2.55)$	$\Gamma(U+15,2.55)$	$\Gamma(U,2.6)$	$\Gamma(U+5,2.6)$
0.0	.000000000	.990739030	.999996175	.999999999	.000000000	.990527969
0.1	.000184976	.991976070	.999996755	.999999999	.000162405	.991883288
0.2	.001873531	.993053224	.999997248	.999999999	.001700392	.992975984
0.3	.006841976	.993990254	.999997656	1.000000000	.006327414	.993926192
0.4	.016467743	.994804634	.999998021		.015426830	.994751713
0.5	.031559045	.995511788	.999998323		.029851213	.995468257
0.6	.052387976	.996125306	.999998578		.049931898	.996089665
0.7	.078791277	.996657145	.999998796		.075564982	.996628114
0.8	.110286381	.997117814	.999998980		.106319313	.997094299
0.9	.146180120	.997516526	.999999136		.141541643	.997497601
1.0	.185660929	.997861358	.999999268		.180448114	.997846236
1.1	.227872031	.998159375	.999999380		.222198322	.998147394
1.2	.271966301	.998416755	.999999476		.265951891	.998407355
1.3	.317144999	.998638888	.999999556		.310909198	.998631600
1.4	.362683073	.998830476	.999999624		.356338652	.998824998
1.5	.407943762	.998995615	.999999682		.401593085	.998991439
1.6	.452384997	.999137868	.999999731		.446117670	.999134812
1.7	.495559763	.999260335	.999999773		.489451502	.999258174
1.8	.537112215	.999365707	.999999808		.531224663	.999364254
1.9	.576770994	.999456320	.999999837		.571152208	.999455422
2.0	.614340861	.999534197	.999999863		.609026282	.999533731
2.1	.649693512	.999601095	.999999884		.644707224	.999600956
2.2	.682758194	.999658531	.999999902		.678114335	.999658641
2.3	.713512565	.999707819	.999999917		.709216788	.999708110
2.4	.741974095	.999750094	.999999930		.738025001	.999750513
2.5	.768192195	.999786338	.999999941		.764582687	.999786843
2.6	.792241164	.999817395	.999999950		.788959686	.999817954
2.7	.814214006	.999843998	.999999958		.811245644	.999844585
2.8	.834217085	.999866774	.999999964		.831544534	.999867370
2.9	.852365605	.999886265	.999999970		.849969990	.999886856
3.0	.868779830	.999902939	.999999975		.866641400	.999903513
3.1	.883582005	.999917197	.999999979		.881680691	.999917747
3.2	.896893867	.999929385	.999999982		.895209737	.999929906
3.3	.908834703	.999939798	.999999985		.907348312	.999940287
3.4	.919519863	.999948692	.999999987		.918212520	.999949147
3.5	.929059669	.999956286	.999999989		.927913627	.999956707
3.6	.937558646	.999962768	.999999991		.936557230	.999963154
3.7	.945115032	.999968298	.999999992		.944242719	.999968651
3.8	.951820508	.999973014	.999999993		.951062963	.999973336
3.9	.957760103	.999977036	.999999995		.957104180	.999977327
4.0	.963012242	.999980463	.999999995		.962445958	.999980726
4.1	.967648902	.999983384	.999999996		.967161433	.999983621
4.2	.971735844	.999985872	.999999997		.971317412	.999986084
4.3	.975332909	.999987990	.999999997		.974974758	.999988181
4.4	.978494344	.999989794	.999999998		.978188663	.999989964
4.5	.98159163	.999991329	.999999998		.981009012	.999991480
4.6	.983701509	.999992635	.999999998		.983480748	.999992769
4.7	.985831024	.999993746	.999999999		.985644240	.999993865
4.8	.987693212	.999994690	.999999999		.987535652	.999994796
4.9	.989319791	.999995493	.999999999		.989187295	.999995586

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

$\Gamma(U+10,2.6)$	$\Gamma(U+15,2.6)$	$\Gamma(U,2.65)$	$\Gamma(U+5,2.65)$	$\Gamma(U+10,2.65)$	$\Gamma(U+15,2.65)$
0.0	.999996258	.999999999	.000000000	.9999914831	.999996336
0.1	.999996828	.999999999	.000142552	.991788711	.999996897
0.2	.999997312	.999999999	.001542885	.992897195	.999997372
0.3	.999997722	1.000000000	.005850217	.993860793	.999997775
0.4	.999998070		.014448568	.994697639	.999998117
0.5	.999998366		.028229940	.995423731	.999998407
0.6	.999998616		.047581584	.996053156	.999998652
0.7	.999998829		.072457229	.996598341	.999998860
0.8	.999999008		.102476759	.997070143	.999999036
0.9	.999999161		.137027355	.997478121	.999999185
1.0	.999999290		.175353880	.997830634	.999999311
1.1	.999999399		.216633554	.998134996	.999999418
1.2	.999999492		.260034015	.998397593	.999999508
1.3	.999999571		.304755920	.998623998	.999999584
1.4	.999999637		.350062128	.998819056	.999999649
1.5	.999999693		.395295855	.998987023	.999999703
1.6	.999999741		.439890103	.999131547	.999999750
1.7	.999999781		.483370488	.999255829	.999999789
1.8	.999999815		.525353259	.999352540	.999999822
1.9	.999999844		.565540013	.999454384	.999999849
2.0	.999999868		.603710299	.999533140	.999999873
2.1	.999999888		.639713044	.999600711	.999999893
2.2	.999999906		.673457499	.999658653	.999999910
2.3	.999999921		.704904218	.999708314	.999999924
2.4	.999999933		.734056414	.999750856	.999999936
2.5	.999999943		.760951944	.999787281	.999999946
2.6	.999999952		.785656030	.999818453	.999999954
2.7	.999999960		.808254819	.999845110	.999999961
2.8	.999999966		.828849756	.999867918	.999999968
2.9	.999999971		.847552789	.999887403	.999999973
3.0	.999999976		.864482321	.999904049	.999999977
3.1	.999999980		.879759876	.999918264	.999999981
3.2	.999999983		.893507389	.999930397	.999999984
3.3	.999999986		.905845064	.999940749	.999999986
3.4	.999999988		.916889708	.999949578	.999999988
3.5	.999999990		.926753492	.999957106	.999999990
3.6	.999999991		.935543060	.999963521	.999999992
3.7	.999999993		.9433358931	.999968987	.999999993
3.8	.999999994		.950295146	.999973642	.999999994
3.9	.999999995		.956439109	.999977605	.999999995
4.0	.999999996		.961871581	.999980977	.999999996
4.1	.999999996		.966666797	.999983847	.999999997
4.2	.999999997		.970892671	.999986287	.999999997
4.3	.999999997		.974611072	.999988362	.999999998
4.4	.999999998		.977878139	.999990126	.999999998
4.5	.999999998		.980744635	.999991624	.999999998
4.6	.999999998		.983256308	.999992897	.999999999
4.7	.999999999		.985454251	.999993978	.999999999
4.8	.999999999		.987375321	.999994896	.999999999
4.9	.999999999		.989052399	.999995675	.999999999



TABLE 1 (CONTINUED)  
THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$

U	$\Gamma(U,2.7)$	$\Gamma(U+5,2.7)$	$\Gamma(U+10,2.7)$	$\Gamma(U+15,2.7)$	$\Gamma(U,2.75)$	$\Gamma(U+5,2.75)$
0.0	.000000000	.990399609	.999996411	.999999999	.000000000	.990282293
0.1	.000125096	.991692334	.999996953	.999999999	.000109750	.991594151
0.2	.001399638	.992816853	.999997430	1.000000000	.001269392	.992734953
0.3	.005407787	.993794056	.999997826		.004997697	.993725976
0.4	.013529422	.994642410	.999998162		.012666036	.994586026
0.5	.026691248	.995378210	.999998446		.025231263	.995331694
0.6	.045333026	.996015809	.999998686		.043182334	.995977594
0.7	.069464370	.996567828	.999998890		.066582833	.996536576
0.8	.098755649	.997045949	.999999062		.095153074	.997019919
0.9	.132634913	.997458090	.999999208		.128361979	.997437510
1.0	.170376616	.997814556	.999999331		.165514684	.997798004
1.1	.211176791	.998122186	.999999435		.205827061	.998108966
1.2	.254212322	.998387474	.999999523		.248486416	.998377000
1.3	.298685285	.998616085	.999999597		.292697370	.998607865
1.4	.343853978	.998812953	.999999660		.337714637	.998806574
1.5	.389052794	.998982373	.999999713		.382864590	.998977491
1.6	.433703170	.999128076	.999999758		.427557716	.999124404
1.7	.477317662	.999253305	.999999796		.471293951	.999250604
1.8	.519498958	.999360869	.999999828		.513662700	.999358944
1.9	.559935329	.999453207	.999999855		.554339063	.999451895
2.0	.598393762	.999532428	.999999878		.593077516	.999531597
2.1	.634711734	.999600357	.999999897		.629704054	.999599899
2.2	.668788351	.999658572	.999999913		.664107555	.999658399
2.3	.700575418	.999708436	.999999927		.696230955	.999708476
2.4	.730068799	.999751125	.999999938		.726062625	.999751322
2.5	.757300337	.999787653	.999999948		.753628246	.999787962
2.6	.782330488	.999818894	.999999956		.778983354	.999819279
2.7	.805241748	.999845601	.999999963		.802206655	.999846033
2.8	.826132907	.999868421	.999999969		.823394147	.999868879
2.9	.845114103	.999887911	.999999974		.842654041	.999888378
3.0	.862302653	.999904549	.999999978		.860102460	.999905014
3.1	.877819586	.999918748	.999999982		.875859850	.999919201
3.2	.891786825	.999930859	.999999984		.890048047	.999931293
3.3	.904324939	.999941185	.999999987		.902787922	.999941597
3.4	.915551392	.999949986	.999999989		.914197544	.999950372
3.5	.925579222	.999957485	.999999991		.924390778	.999957844
3.6	.934516088	.999963870	.999999992		.933476268	.999964202
3.7	.942463617	.999969307	.999999993		.941556730	.999969611
3.8	.949517010	.999973934	.999999994		.948728504	.999974211
3.9	.955764842	.999977870	.999999995		.955081332	.999978122
4.0	.961289036	.999981217	.999999996		.960698298	.999981445
4.1	.966164953	.999984062	.999999997		.965655859	.999984268
4.2	.970461584	.999986481	.999999997		.970024114	.999986666
4.3	.974241818	.999988536	.999999998		.973866961	.999988701
4.4	.977562744	.999990281	.999999998		.977724249	.999990429
4.5	.980476009	.999991762	.999999998		.980203107	.999991894
4.6	.983028169	.999993070	.999999999		.982796309	.999993137
4.7	.985261068	.999994087	.999999999		.985064644	.999994191
4.8	.987212204	.999994907	.999999999		.987046286	.999995084
4.9	.988915091	.999995740	.999999999		.988775360	.999995841

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,2.75)$	$\Gamma(U+15,2.75)$	$\Gamma(U,2.8)$	$\Gamma(U+5,2.8)$	$\Gamma(U+10,2.8)$	$\Gamma(U+15,2.8)$
0.0	.999996483	.999999999	.000000000	.990162875	.999996551	.999999999
0.1	.999997026	.999999999	.000096263	.991494153	.999997086	.999999999
0.2	.999997486	1.000000000	.001151000	.992651490	.999997539	1.000000000
0.3	.999997875		.004617678	.993656550	.999997921	
0.4	.999998204		.011855229	.994528483	.999998245	
0.5	.999998483		.023846307	.995284181	.999998519	
0.6	.999998719		.041125738	.995938523	.999998750	
0.7	.999998918		.063809120	.996504587	.999998945	
0.8	.999999087		.091665844	.996993857	.999999110	
0.9	.999999220		.124206216	.997416383	.999999250	
1.0	.999999349		.160766432	.997780980	.999999367	
1.1	.999999451		.200583358	.998095339	.999999467	
1.2	.999999537		.242855862	.998366175	.999999551	
1.3	.999999610		.286792209	.998599341	.999999621	
1.4	.999999671		.331644500	.998799932	.999999681	
1.5	.999999722		.376731897	.998972380	.999999731	
1.6	.999999766		.421454560	.999120532	.999999774	
1.7	.999999803		.465300256	.999247730	.999999809	
1.8	.999999834		.507845410	.999356868	.999999840	
1.9	.999999860		.548752117	.999450451	.999999865	
2.0	.999999882		.587762403	.999530650	.999999886	
2.1	.999999901		.624690764	.999599339	.999999904	
2.2	.999999916		.659415779	.999658136	.999999920	
2.3	.999999930		.691871399	.999708438	.999999932	
2.4	.999999941		.722038366	.999751450	.999999943	
2.5	.999999950		.749936052	.999788210	.999999952	
2.6	.999999958		.775614929	.999819609	.999999960	
2.7	.999999965		.799149767	.999846418	.999999966	
2.8	.999999970		.820633640	.999869295	.999999972	
2.9	.999999975		.840172713	.999888809	.999999976	
3.0	.999999970		.857881810	.999905445	.999999980	
3.1	.999999982		.873880703	.999919624	.999999983	
3.2	.999999985		.888291062	.999931701	.999999986	
3.3	.999999988		.901233998	.999941985	.999999988	
3.4	.999999990		.912828132	.999950737	.999999990	
3.5	.999999991		.923188119	.999958184	.999999992	
3.6	.999999993		.932423556	.999964517	.999999993	
3.7	.999999994		.940638220	.999969901	.999999994	
3.8	.999999995		.947929581	.999974476	.999999995	
3.9	.999999996		.954388530	.999978363	.999999996	
4.0	.999999996		.960099291	.999981663	.999999997	
4.1	.999999997		.965139472	.999984465	.999999997	
4.2	.999999997		.969580221	.999986843	.999999998	
4.3	.999999998		.973486469	.999988860	.999999998	
4.4	.999999998		.976917222	.999990570	.999999998	
4.5	.999999998		.979925902	.999992020	.999999999	
4.6	.999999999		.982560705	.999993249	.999999999	
4.7	.999999999		.984864970	.999994290	.999999999	
4.8	.999999999		.986877553	.999995172	.999999999	
4.9	.999999999		.988633194	.999995919	.999999999	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,2.85)$	$\Gamma(U+5,2.85)$	$\Gamma(U+10,2.85)$	$\Gamma(U+15,2.85)$	$\Gamma(U,2.9)$	$\Gamma(U+5,2.9)$
0.0	.000000000	.990041342	.999996617	.999999999	.000000000	.989917685
0.1	.000084414	.991392333	.999997144	1.000000000	.000074005	.991288682
0.2	.001043410	.992566458	.999997589		.000945661	.992479851
0.3	.004265616	.993585775	.999997966		.003939535	.993513644
0.4	.011093987	.994469779	.999998284		.010379457	.994479917
0.5	.022532839	.995235671	.999998552		.021287470	.995186161
0.6	.039159585	.995898594	.999998780		.037280338	.995857803
0.7	.061139811	.996471861	.999998971		.058571562	.996428198
0.8	.088291185	.996967154	.999999122		.085026141	.996939822
0.9	.120165299	.997394711	.999999266		.116236889	.997372400
1.0	.156130185	.997763487	.999999384		.151604257	.997745520
1.1	.195444641	.998081308	.999999482		.190409842	.998066875
1.2	.237320185	.998355001	.999999562		.231878869	.998343480
1.3	.280969792	.998590515	.999999632		.275230077	.998581391
1.4	.325643925	.998793029	.999999691		.319713230	.998785867
1.5	.370655334	.998967042	.999999740		.364635487	.998961482
1.6	.415394490	.999116465	.999999781		.409378265	.999112204
1.7	.459237460	.999244086	.999999816		.453406422	.999241472
1.8	.502047999	.999354642	.999999845		.496271359	.999352271
1.9	.543175379	.999448878	.999999870		.537609730	.999447170
2.0	.582449256	.999529590	.999999890		.577138906	.999528412
2.1	.619672622	.999598680	.999999908		.614650386	.999597922
2.2	.654713690	.999657786	.999999922		.650001956	.999657351
2.3	.687497321	.999708320	.999999935		.683109296	.999708122
2.4	.717996498	.999751511	.999999945		.713937505	.999751506
2.5	.746224145	.999788398	.999999954		.742492916	.999788526
2.6	.772225518	.999819887	.999999961		.768815432	.999820114
2.7	.796071316	.999846755	.999999968		.792971540	.999847048
2.8	.817851555	.999869670	.999999973		.815048066	.999870004
2.9	.837670235	.999889202	.999999977		.835146725	.999889560
3.0	.855640774	.999905844	.999999981		.853379427	.999906212
3.1	.871882179	.999920018	.999999984		.869864318	.999920385
3.2	.886515877	.999932082	.999999986		.884722502	.999932441
3.3	.899663153	.999942350	.999999989		.898075375	.999942693
3.4	.911443130	.999951082	.999999990		.910042509	.999951408
3.5	.921971207	.999958506	.999999992		.920740005	.999958812
3.6	.931357905	.999964816	.999999993		.930279271	.999965100
3.7	.939708039	.999970176	.999999994		.938766140	.999970438
3.8	.947120189	.999974728	.999999995		.946300281	.999974968
3.9	.953686387	.999978592	.999999996		.952974856	.999978811
4.0	.959491999	.999981871	.999999997		.958876365	.999982070
4.1	.964615750	.999984652	.999999997		.964084649	.999984832
4.2	.969129867	.999987011	.999999998		.968673011	.999987173
4.3	.973100304	.999989011	.999999998		.972708432	.999989156
4.4	.976587032	.999990705	.999999998		.976251849	.999990835
4.5	.979644369	.999992141	.999999999		.979358478	.999992256
4.6	.982321335	.999993356	.999999999		.982078174	.999993459
4.7	.984662026	.999994385	.999999999		.984455793	.999994476
4.8	.986705987	.999995256	.999999999		.986531572	.999995337
4.9	.988488580	.999995993	.999999999		.988341503	.999996064

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,2.9)$	$\Gamma(U+15,2.9)$	$\Gamma(U,2.95)$	$\Gamma(U+5,2.95)$	$\Gamma(U+10,2.95)$	$\Gamma(U+15,2.95)$
0.0	.999996679	.999999999	.000000000	.989791891	.999996739	1.000000000
0.1	.999997199	1.000000000	.000064865	.991103107	.999997251	
0.2	.999997638		.000856875	.992391661	.999997684	
0.3	.999998008		.003637592	.993440154	.999998049	
0.4	.999998321		.009708933	.994348877	.999998357	
0.5	.999998585		.020106947	.995125649	.999998616	
0.6	.999998808		.035484570	.995816160	.999998835	
0.7	.999998996		.056101106	.996404198	.999999019	
0.8	.999999154		.081867850	.996911858	.999999175	
0.9	.999999288		.112418690	.997349737	.999999306	
1.0	.999999401		.147186946	.997727100	.999999416	
1.1	.999999496		.185477863	.998052041	.999999509	
1.2	.999999576		.226531366	.998331615	.999999587	
1.3	.999999643		.269572973	.998571970	.999999653	
1.4	.999999700		.313852697	.998778450	.999999709	
1.5	.999999748		.358672906	.998955701	.999999755	
1.6	.999999788		.403406629	.999107751	.999999794	
1.7	.999999822		.447507978	.999238095	.999999827	
1.8	.999999850		.490516369	.999349756	.999999855	
1.9	.999999874		.532056037	.999445351	.999999878	
2.0	.999999894		.571832175	.999527139	.999999898	
2.1	.999999911		.609624805	.999597072	.999999914	
2.2	.999999925		.645281246	.999656833	.999999928	
2.3	.999999937		.678707902	.999707871	.999999940	
2.4	.999999947		.709861871	.999751426	.999999949	
2.5	.999999955		.738742762	.999788602	.999999958	
2.6	.999999963		.765384987	.999820292	.999999964	
2.7	.999999969		.789850679	.999847298	.999999970	
2.8	.999999974		.812223350	.999870301	.999999975	
2.9	.999999978		.832602309	.999889885	.999999979	
3.0	.999999982		.851097847	.999906550	.999999982	
3.1	.999999985		.867827160	.999920724	.999999985	
3.2	.999999987		.882910950	.999932775	.999999988	
3.3	.999999989		.896470658	.999943016	.999999990	
3.4	.999999991		.908626245	.999951715	.999999991	
3.5	.999999992		.919494475	.999959100	.999999993	
3.6	.999999994		.929187611	.999965369	.999999994	
3.7	.999999995		.937812474	.999970627	.999999995	
3.8	.999999996		.945469807	.999975197	.999999996	
3.9	.999999996		.952253888	.999979020	.999999996	
4.0	.999999997		.958252344	.999982259	.999999997	
4.1	.999999997		.963546126	.999985003	.999999998	
4.2	.999999998		.968209614	.999987327	.999999998	
4.3	.999999998		.972310816	.999989294	.999999998	
4.4	.999999999		.975911639	.999990958	.999999999	
4.5	.999999999		.979068203	.999992366	.999999999	
4.6	.999999999		.981831198	.999993557	.999999999	
4.7	.999999999		.984246249	.999994563	.999999999	
4.8	.999999999		.986356292	.999995414	.999999999	
4.9	.999999999		.988191949	.999996132	.999999999	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, .3)$	$\Gamma(U+.5, .3)$	$\Gamma(U+1.0, .3)$	$\Gamma(U+1.5, .3)$	$\Gamma(U, .3, .05)$	$\Gamma(U+.5, .3, .05)$
0.0	.000000000	.989663949	.999996796	1.000000000	.000000000	.989533846
0.1	.000056840	.991075853	.999997302		.000049797	.990966653
0.2	.000776251	.992301880	.999997728		.000703057	.992210502
0.3	.003358069	.993365298	.999998087		.003099364	.993289071
0.4	.009079858	.994286670	.999998390		.008489809	.994273287
0.5	.018988157	.995084133	.999998646		.017928119	.995031608
0.6	.033768968	.995773652	.999998861		.032130326	.995730282
0.7	.053725259	.996369259	.999999042		.051440881	.996333582
0.8	.078813487	.996883261	.999999195		.075860274	.996854032
0.9	.108708395	.997326436	.999999323		.105103715	.997302594
1.0	.142876540	.997708209	.999999431		.138671316	.997688853
1.1	.180647578	.998036808	.999999522		.175917839	.998021177
1.2	.221277089	.998319407	.999999598		.216115418	.998306858
1.3	.263998356	.998562254	.999999663		.258506063	.998552245
1.4	.308062567	.998770779	.999999717		.302343049	.998762856
1.5	.352768111	.998949700	.999999762		.346921586	.998943483
1.6	.397480276	.999103110	.999999801		.391599885	.999098281
1.7	.441642945	.999234553	.999999833		.435812113	.999240850
1.8	.484783890	.999347099	.999999860		.479074764	.999344302
1.9	.526515157	.999443401	.999999882		.520987935	.999441331
2.0	.566529880	.999525751	.999999901		.561232828	.999524259
2.1	.604596630	.999596127	.999999917		.599566609	.999595091
2.2	.640552227	.999656233	.999999931		.635815568	.999655553
2.3	.674293717	.999707538	.999999942		.669867322	.999707134
2.4	.705770084	.999751305	.999999951		.701662635	.999751113
2.5	.734974085	.999788621	.999999959		.731187289	.999788586
2.6	.761934501	.999820421	.999999965		.758464300	.999820503
2.7	.786708982	.999847504	.999999971		.783546698	.999847670
2.8	.809317591	.999870560	.999999976		.806510974	.999870783
2.9	.830037113	.999890176	.999999980		.827451270	.999890436
3.0	.848796117	.999906858	.999999983		.846474322	.999907139
3.1	.865770752	.999921039	.999999986		.863695140	.999921328
3.2	.881081238	.999933087	.999999988		.879233383	.999933376
3.3	.894848992	.999943318	.999999990		.893210374	.999943601
3.4	.907194315	.999952004	.999999992		.905746695	.999952276
3.5	.918234584	.999959373	.999999993		.916960296	.999959631
3.6	.928082882	.999965624	.999999994		.926965042	.999965866
3.7	.936846995	.999970923	.999999995		.935869655	.999971148
3.8	.944628719	.999975414	.999999996		.943776967	.999975621
3.9	.951523435	.999979218	.999999997		.950783448	.999979408
4.0	.957619888	.999982440	.999999997		.956978950	.999982612
4.1	.963000136	.999985167	.999999998		.962446635	.999985323
4.2	.967739634	.999987474	.999999998		.967263032	.999987615
4.3	.971907420	.999989426	.999999998		.971498205	.999989553
4.4	.975566370	.999991077	.999999999		.975216008	.999991190
4.5	.978773514	.999992472	.999999999		.978474381	.999992573
4.6	.981580387	.999993651	.999999999		.981325701	.999993740
4.7	.984033373	.999994646	.999999999		.983817143	.999994726
4.8	.986174127	.999995487	.999999999		.985991059	.999995558
4.9	.988039903	.999996197	.999999999		.987885351	.999996259

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U+10,3.05)$	$\Gamma(U+15,3.05)$	$\Gamma(U,3.1)$	$\Gamma(U+5,3.1)$	$\Gamma(U+10,3.1)$	$\Gamma(U+15,3.1)$
0.0	.999996851	1.000000000	.000000000	.989401568	.999996904	
0.1	.999997350		.000043616	.990855582	.999997396	
0.2	.999997770		.000636624	.992117516	.999997811	
0.3	.999998125		.002859985	.993211465	.999998160	
0.4	.999998423		.007936495	.994158723	.999998454	
0.5	.999998674		.016923980	.994978073	.999998701	
0.6	.999998886		.030565545	.995686045	.999998909	
0.7	.999999064		.049244960	.996297165	.999999084	
0.8	.999999213		.073005473	.996824169	.999999231	
0.9	.999999339		.101602379	.997278210	.999999355	
1.0	.999999445		.134569545	.997669034	.999999459	
1.1	.999999534		.171287473	.998005149	.999999546	
1.2	.999999609		.211045702	.998293969	.999999619	
1.3	.999999672		.253095895	.998541944	.999999681	
1.4	.999999725		.296694313	.998754683	.999999732	
1.5	.999999769		.341133783	.998937051	.999999776	
1.6	.999999806		.385766107	.999093268	.999999812	
1.7	.999999838		.430016253	.999226987	.999999843	
1.8	.999999864		.473389820	.999341368	.999999868	
1.9	.999999886		.515475206	.999439142	.999999890	
2.0	.999999904		.555941823	.999522663	.999999908	
2.1	.999999920		.594535484	.999593965	.999999923	
2.2	.999999933		.631071936	.999654795	.999999935	
2.3	.999999944		.665429300	.999706663	.999999946	
2.4	.999999953		.697540021	.999750861	.999999955	
2.5	.999999961		.727382783	.999788502	.999999962	
2.6	.999999967		.754974711	.999820540	.999999968	
2.7	.999999972		.780364084	.999847796	.999999973	
2.8	.999999977		.803623691	.999870970	.999999978	
2.9	.999999981		.824844914	.999890664	.999999981	
3.0	.999999984		.844132551	.999907392	.999999985	
3.1	.999999987		.861600377	.999921594	.999999987	
3.2	.999999989		.877367406	.999933644	.999999989	
3.3	.999999991		.891554800	.999943866	.999999991	
3.4	.999999992		.904283367	.999952531	.999999992	
3.5	.999999993		.915671578	.999959874	.999999994	
3.6	.999999994		.925834050	.999966094	.999999995	
3.7	.999999995		.934880410	.999971361	.999999996	
3.8	.999999996		.942914504	.999975818	.999999996	
3.9	.999999997		.950033878	.999979588	.999999997	
4.0	.999999997		.956329484	.999982777	.999999997	
4.1	.999999998		.961885579	.999985472	.999999998	
4.2	.999999998		.966779765	.999987750	.999999998	
4.3	.999999998		.971083135	.999989674	.999999999	
4.4	.999999999		.974860519	.999991298	.999999999	
4.5	.999999999		.978170775	.999992669	.999999999	
4.6	.999999999		.981067128	.999993827	.999999999	
4.7	.999999999		.983597537	.999994802	.999999999	
4.8	.999999999		.985805069	.999995625	.999999999	
4.9	.999999999		.987728275	.999996319	1.000000000	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, 3.15)$	$\Gamma(U+5, 3.15)$	$\Gamma(U+10, 3.15)$	$\Gamma(U, 3.2)$	$\Gamma(U+5, 3.2)$	$\Gamma(U+10, 3.2)$
0.0	.000000000	.989267102	.999996954	.000000000	.989130434	.999997002
0.1	.000038194	.990742630	.999997441	.000033438	.990627784	.999997482
0.2	.000576342	.992022915	.999997850	.000521656	.991926689	.999997887
0.3	.002638541	.993132473	.999998194	.002433736	.993052089	.999998227
0.4	.007417752	.994092972	.999998484	.004931531	.994026029	.999998512
0.5	.015973009	.994923521	.999998727	.015072595	.994867951	.999998752
0.6	.029071628	.995640941	.999998932	.027645685	.995594965	.999998954
0.7	.047134521	.996260005	.999999104	.045106678	.996222102	.999999123
0.8	.070246394	.996793673	.999999248	.067580390	.996762541	.999999265
0.9	.098202120	.997253284	.999999370	.094900728	.997227816	.999999384
1.0	.130569491	.997648752	.999999472	.126669417	.997628007	.999999484
1.1	.166755285	.997988725	.999999557	.162320061	.997971907	.999999568
1.2	.206067257	.998280741	.999999629	.201179371	.998267175	.999999638
1.3	.247767619	.998531353	.999999689	.242520968	.998520473	.999999697
1.4	.291116495	.998746260	.999999740	.285609696	.998737591	.999999746
1.5	.335405123	.998930405	.999999782	.329735992	.998923547	.999999788
1.6	.379979561	.999088071	.999999817	.374240841	.999082691	.999999823
1.7	.424256113	.999222966	.999999847	.418532415	.999218789	.999999852
1.8	.467729867	.999338298	.999999872	.462095697	.999335092	.999999876
1.9	.509977790	.999436835	.999999893	.504496496	.999434411	.999999896
2.0	.550657657	.999520966	.999999910	.545381117	.999519168	.999999913
2.1	.589503993	.999592750	.999999925	.584472872	.999591449	.999999928
2.2	.626321997	.999653962	.999999937	.621566415	.999653052	.999999939
2.3	.660980234	.999706125	.999999948	.656520708	.999705521	.999999949
2.4	.693402738	.999750551	.999999956	.689251285	.999750184	.999999958
2.5	.723560980	.999788365	.999999963	.719722296	.999788178	.999999965
2.6	.751466068	.999820533	.999999969	.747938707	.999820482	.999999971
2.7	.777161399	.999847883	.999999974	.773938908	.999847932	.999999975
2.8	.800715938	.999871124	.999999979	.797787914	.999871244	.999999979
2.9	.822218186	.999890863	.999999982	.819571229	.999891032	.999999983
3.0	.841770897	.999907619	.999999985	.839389455	.999907820	.999999986
3.1	.859486515	.999921836	.999999988	.857353613	.999922055	.999999988
3.2	.875483330	.999933892	.999999990	.873581181	.999934120	.999999990
3.3	.889882270	.999944112	.999999991	.888192786	.999944341	.999999992
3.4	.902804311	.999952771	.999999993	.901309509	.999952995	.999999993
3.5	.914368400	.999960103	.999999994	.913050730	.999960319	.999999994
3.6	.924689865	.999966310	.999999995	.923532447	.999966515	.999999995
3.7	.933879212	.999971563	.999999996	.932866018	.999971754	.999999996
3.8	.942041282	.999976005	.999999997	.941157252	.999976182	.999999997
3.9	.949274677	.999979760	.999999997	.948505797	.999979924	.999999997
4.0	.955671441	.999982934	.999999998	.955004776	.999983083	.999999998
4.1	.961316923	.999985615	.999999998	.960740621	.999985751	.999999998
4.2	.966289791	.999987873	.999999998	.965793069	.999988002	.999999998
4.3	.970662171	.999989790	.999999999	.970235275	.999989900	.999999999
4.4	.974499870	.999991402	.999999999	.974134025	.999991501	.999999999
4.5	.977862665	.999992762	.999999999	.977550020	.999992851	.999999999
4.6	.980804637	.999993909	.999999999	.980538200	.999993988	.999999999
4.7	.983374532	.999994876	.999999999	.983148103	.999994946	.999999999
4.8	.985616137	.999995690	.999999999	.985424243	.999995752	.999999999
4.9	.987568659	.999996376	1.000000000	.987406487	.999996431	1.000000000

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, 3.25)$	$\Gamma(U+5, 3.25)$	$\Gamma(U+10, 3.25)$	$\Gamma(U, 3.3)$	$\Gamma(U+5, 3.3)$	$\Gamma(U+10, 3.3)$
0.0	.000000000	.988991549	.999997049	.000000000	.988850431	.999997093
0.1	.000029268	.990511032	.999997524	.000025612	.990392363	.999997563
0.2	.000472056	.991828827	.999997923	.000427082	.991729320	.999997957
0.3	.002244365	.992970304	.999998258	.002069304	.992887110	.999998288
0.4	.006475899	.993957888	.999998540	.006049027	.993888541	.999998566
0.5	.014220243	.994811355	.999998776	.013413566	.994753731	.999998799
0.6	.026284919	.995548114	.999998974	.024986636	.995500385	.999998994
0.7	.043158615	.996183451	.999999141	.041287593	.996144052	.999999152
0.8	.065004861	.996730772	.999999280	.062517254	.996698364	.999999296
0.9	.091695957	.997201805	.999999398	.086585619	.997175249	.999999411
1.0	.122867579	.997606798	.999999494	.119162236	.997585126	.999999507
1.1	.157980568	.997954692	.999999578	.153735558	.997937082	.999999586
1.2	.196381302	.998253271	.999999647	.191672284	.998239030	.999999655
1.3	.237355639	.998509305	.999999705	.232271300	.998497850	.999999712
1.4	.280173983	.998728675	.999999752	.274809391	.998719512	.999999759
1.5	.324126746	.998916478	.999999794	.318577711	.998909199	.999999799
1.6	.368550512	.999077131	.999999827	.362909111	.999071392	.999999832
1.7	.412845861	.999214456	.999999856	.407197131	.999209971	.999999860
1.8	.456488086	.999331754	.999999879	.450907788	.999328283	.999999883
1.9	.499032121	.999431873	.999999899	.493585447	.999429222	.999999902
2.0	.540112980	.999517271	.999999916	.534854016	.999515276	.999999918
2.1	.579442851	.999590062	.999999930	.574414654	.999588592	.999999932
2.2	.616805853	.999652069	.999999941	.612940974	.999651013	.999999943
2.3	.652051306	.999704854	.999999951	.647572616	.999704122	.999999953
2.4	.685086165	.999749761	.999999959	.680907883	.999749284	.999999961
2.5	.715867151	.999787944	.999999966	.711995968	.999787661	.999999967
2.6	.744392969	.999820389	.999999972	.740829199	.999820255	.999999974
2.7	.770696880	.999847944	.999999976	.767435586	.999847920	.999999977
2.8	.794839822	.999871332	.999999980	.791871871	.999871389	.999999981
2.9	.816904191	.999891173	.999999984	.814217222	.999891287	.999999984
3.0	.836988327	.999907997	.999999986	.834567616	.999908149	.999999987
3.1	.855201731	.999922253	.999999989	.853030932	.999922430	.999999989
3.2	.871660987	.999934329	.999999990	.869722780	.999934519	.999999991
3.3	.886486349	.999944553	.999999992	.884762968	.999944748	.999999992
3.4	.899798948	.999953204	.999999993	.898272612	.999953399	.999999994
3.5	.911718540	.999960521	.999999994	.910371801	.999960711	.999999995
3.6	.922361759	.999966707	.999999995	.921177763	.999966889	.999999996
3.7	.931840783	.999971935	.999999996	.930803462	.999972107	.999999996
3.8	.940262367	.999976351	.999999997	.939356581	.999976511	.999999997
3.9	.947727189	.999980079	.999999997	.946938805	.999980227	.999999997
4.0	.954329439	.999983226	.999999998	.953645384	.999983362	.999999998
4.1	.960156629	.999985881	.999999998	.959564900	.999986004	.999999998
4.2	.965289557	.999988119	.999999998	.964779211	.999988231	.999999999
4.3	.969802407	.999990006	.999999999	.969363528	.999990108	.999999999
4.4	.973762950	.999991596	.999999999	.973386607	.999991587	.999999999
4.5	.977232810	.999992936	.999999999	.976911000	.999993017	.999999999
4.6	.980267790	.999994064	.999999999	.979993379	.999994136	.999999999
4.7	.982918228	.999995013	.999999999	.982684881	.999995078	.999999999
4.8	.985229367	.999995812	.999999999	.985031487	.999995869	1.000000000
4.9	.987241740	.999996484	1.000000000	.987074401	.999996534	



TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,3.35)$	$\Gamma(U+5,3.35)$	$\Gamma(U+10,3.35)$	$\Gamma(U,3.4)$	$\Gamma(U+5,3.4)$	$\Gamma(U+10,3.4)$
0.0	.000000000	.988707066	.999997136	.000000000	.988561437	.999997177
0.1	.000022408	.990271762	.999997600	.000019601	.990149217	.999997636
0.2	.000386310	.991628158	.999997990	.000349358	.991525328	.999998022
0.3	.001907511	.992802408	.999998317	.001758013	.992716460	.999998345
0.4	.005649192	.993817982	.999998591	.005274765	.993746205	.999998615
0.5	.012650286	.994695072	.999998821	.011928225	.994635372	.999998842
0.6	.023748234	.995451773	.999999013	.022567204	.995402274	.999999032
0.7	.039490943	.996103900	.999999175	.037766070	.996062993	.999999191
0.8	.060115062	.996665316	.999999310	.057795826	.996631625	.999999324
0.9	.085567537	.997148148	.999999422	.082639559	.997120500	.999999435
1.0	.115551647	.997562989	.999999518	.112034073	.997540387	.999999528
1.1	.149583767	.997919077	.999999597	.145523017	.997900676	.999999606
1.2	.187051524	.998224453	.999999663	.182518204	.998209539	.999999671
1.3	.227267588	.998486107	.999999719	.222344109	.998474078	.999999726
1.4	.269515922	.998710106	.999999765	.264293547	.998700456	.999999771
1.5	.313089179	.998901711	.999999804	.307661416	.998894015	.999999809
1.6	.357317148	.999065474	.999999836	.351775107	.999059378	.999999841
1.7	.401586879	.999205331	.999999864	.396015738	.999200540	.999999867
1.8	.445355544	.999324681	.999999886	.439832074	.999320950	.999999889
1.9	.488157243	.999426458	.999999905	.482748268	.999423583	.999999908
2.0	.529604984	.999513185	.999999921	.524366635	.999510999	.999999923
2.1	.569389003	.999587038	.999999934	.564366610	.999585402	.999999936
2.2	.607272436	.999649885	.999999945	.602500895	.999648686	.999999947
2.3	.643085222	.999703331	.999999954	.638589710	.999702477	.999999956
2.4	.676716944	.999748753	.999999962	.672513856	.999748169	.999999963
2.5	.708109172	.999787332	.999999968	.704207192	.999786958	.999999969
2.6	.737247746	.999820080	.999999974	.733648961	.999819866	.999999974
2.7	.764155303	.999847861	.999999978	.760856312	.999847767	.999999979
2.8	.788884272	.999871415	.999999982	.785877244	.999871411	.999999982
2.9	.811510481	.999891374	.999999985	.808784123	.999891435	.999999985
3.0	.832127427	.999908278	.999999987	.829667872	.999908384	.999999988
3.1	.850841283	.999922586	.999999989	.848632853	.999922723	.999999990
3.2	.867766593	.999934692	.999999991	.865792464	.999934847	.999999992
3.3	.883022649	.999944928	.999999993	.881265402	.999945093	.999999993
3.4	.896730490	.999953580	.999999994	.895172573	.999953748	.999999994
3.5	.909010488	.999960889	.999999995	.907634575	.999961054	.999999995
3.6	.919980422	.999967060	.999999996	.918769700	.999967221	.999999996
3.7	.929754014	.999972269	.999999997	.928692395	.999972422	.999999997
3.8	.938439846	.999976663	.999999997	.937512117	.999976807	.999999997
3.9	.946140598	.999980368	.999999998	.945332520	.999980502	.999999998
4.0	.952952564	.999983491	.999999998	.952250932	.999983615	.999999998
4.1	.958965390	.999986123	.999999998	.958358052	.999986236	.999999998
4.2	.964261988	.999988339	.999999999	.963737846	.999988441	.999999999
4.3	.968918600	.999990205	.999999999	.968467580	.999990297	.999999999
4.4	.973004962	.999991775	.999999999	.972617978	.999991858	.999999999
4.5	.976584561	.999993095	.999999999	.976253458	.999993170	.999999999
4.6	.979714937	.999994206	.999999999	.979432437	.999994272	.999999999
4.7	.982448037	.999995139	.999999999	.982207671	.999995199	.999999999
4.8	.984830582	.999995924	1.000000000	.984626629	.999995976	1.000000000
4.9	.986904451	.999996583		.986731872	.999996629	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,3.45)$	$\Gamma(U+5,3.45)$	$\Gamma(U+10,3.45)$	$\Gamma(U,3.5)$	$\Gamma(U+5,3.5)$	$\Gamma(U+10,3.5)$
0.0	.000000000	.988413528	.999997216	.000000000	.988263322	.999997254
0.1	.000017141	.990024713	.999997671	.000014987	.989898238	.999997704
0.2	.000315874	.991420820	.999998052	.000285541	.991314622	.999998081
0.3	.001619907	.992628985	.999998371	.001492354	.992540066	.999998397
0.4	.004924207	.993673201	.999998638	.004596071	.993598562	.999998661
0.5	.011245307	.994574627	.999998862	.010599548	.994512828	.999998882
0.6	.021441126	.995351885	.999999049	.020367672	.995300598	.999999066
0.7	.036110452	.996021328	.999999206	.034521633	.995978900	.999999221
0.8	.055557137	.996597288	.999999337	.053396630	.996562303	.999999350
0.9	.079799557	.997092303	.999999447	.077045429	.997063555	.999999458
1.0	.108607780	.997517319	.999999538	.105271036	.997493783	.999999548
1.1	.141554720	.997881879	.999999615	.137674875	.997862685	.999999623
1.2	.178071485	.998194288	.999999679	.173710505	.998178700	.999999686
1.3	.217500442	.998461762	.999999732	.212736135	.998449160	.999999738
1.4	.259142205	.998690562	.999999777	.254061806	.993680424	.999999782
1.5	.302294654	.998886112	.999999814	.296989097	.998878001	.999999818
1.6	.346283443	.999053105	.999999845	.340842586	.999046657	.999999849
1.7	.390484319	.999195598	.999999871	.384993208	.999190507	.999999874
1.8	.434338080	.999317090	.999999892	.428874246	.999313102	.999999895
1.9	.477359262	.999420597	.999999910	.471990955	.999417503	.999999913
2.0	.519139711	.999508718	.999999925	.513924944	.999506343	.999999927
2.1	.559348186	.999583685	.999999938	.554334432	.999581888	.999999940
2.2	.597727007	.999647418	.999999948	.592951422	.999646081	.999999950
2.3	.634086665	.999701564	.999999957	.629576673	.999700591	.999999958
2.4	.668299130	.999747534	.999999964	.664073274	.999746848	.999999965
2.5	.700290460	.999786539	.999999970	.696359410	.999786075	.999999971
2.6	.730033200	.999819612	.999999975	.726400822	.999819321	.999999976
2.7	.757538898	.999847640	.999999979	.754203347	.999847480	.999999980
2.8	.782851002	.999871378	.999999983	.779805772	.999871316	.999999983
2.9	.806038312	.999891470	.999999986	.803273215	.999891481	.999999986
3.0	.827189064	.999908468	.999999988	.824691121	.999908530	.999999989
3.1	.846405716	.999922840	.999999990	.844159946	.999922938	.999999991
3.2	.863800430	.999934985	.999999992	.861790534	.999935106	.999999992
3.3	.879491240	.999945243	.999999993	.877700178	.999945378	.999999993
3.4	.893598852	.999953902	.999999994	.892009319	.999954044	.999999995
3.5	.906244039	.999961209	.999999995	.904838857	.999961352	.999999996
3.6	.917545564	.999967371	.999999996	.916307980	.999967512	.999999996
3.7	.927618565	.999972566	.999999997	.926532482	.999972701	.999999997
3.8	.936573347	.999976943	.999999997	.935623493	.999977071	.999999997
3.9	.944514523	.999980629	.999999998	.943686561	.999980749	.999999998
4.0	.951540439	.999983732	.999999998	.950821039	.999983843	.999999998
4.1	.957742841	.999986343	.999999998	.957119711	.999986446	.999999999
4.2	.963206741	.999988539	.999999999	.962668630	.999988633	.999999999
4.3	.968010431	.999990386	.999999999	.967547110	.999990471	.999999999
4.4	.972225618	.999991938	.999999999	.971827845	.999992014	.999999999
4.5	.975917659	.999993242	.999999999	.975577130	.999993310	.999999999
4.6	.979145848	.999994336	.999999999	.978855141	.999994398	.999999999
4.7	.981963757	.999995255	1.000000000	.981716270	.999995310	1.000000000
4.8	.984419607	.999996027		.984209492	.999996075	
4.9	.986556644	.999996674		.986378747	.999996716	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $I(U,P)$ 

U	$I(U,3.55)$	$I(U+5,3.55)$	$I(U+10,3.55)$	$I(U,3.6)$	$I(U+5,3.6)$	$I(U+10,3.6)$
0.0	.000000000	.988110802	.999997290	.000000000	.987955951	.999997325
0.1	.000013101	.989769776	.999997736	.000011450	.989639312	.999997766
0.2	.000258067	.991206722	.999998109	.000233190	.991097108	.999998136
0.3	.001374574	.992449690	.999998421	.001265841	.992357850	.999998445
0.4	.004288989	.993523482	.999998682	.004001671	.993446750	.999998703
0.5	.009989057	.994449971	.999998900	.009412030	.994386049	.999998918
0.6	.019344593	.995248411	.999999082	.018369730	.995195317	.999999098
0.7	.032997291	.995935705	.999999235	.031534929	.995891740	.999999248
0.8	.051311991	.996526668	.999999362	.049300955	.996490378	.999999374
0.9	.074375098	.997034255	.999999468	.071786515	.997004400	.999999478
1.0	.102022120	.997469778	.999999557	.098859316	.997445302	.999999566
1.1	.133883074	.997843092	.999999631	.130177999	.997823101	.999999638
1.2	.169434385	.998162774	.999999693	.165242223	.998146510	.999999699
1.3	.208050713	.998436271	.999999744	.203443675	.998423096	.999999750
1.4	.249052230	.998670043	.999999787	.244113331	.998659420	.999999792
1.5	.291744922	.998869685	.999999823	.286562275	.998861162	.999999827
1.6	.335452939	.999040033	.999999852	.330114879	.999033234	.999999854
1.7	.379542969	.999185265	.999999877	.374134146	.999179876	.999999880
1.8	.423441237	.999308985	.999999898	.418039771	.999304744	.999999901
1.9	.466644062	.999414299	.999999915	.461319284	.999410989	.999999917
2.0	.508723055	.999503875	.999999929	.503534754	.999501317	.999999931
2.1	.549326047	.999580011	.999999941	.544323719	.999578056	.999999943
2.2	.588174787	.999644675	.999999951	.583397749	.999643203	.999999953
2.3	.625060317	.999699560	.999999960	.620538180	.999698471	.999999961
2.4	.659836802	.999746111	.999999966	.655590226	.999745325	.999999967
2.5	.692414477	.999785549	.999999972	.688456101	.999785020	.999999973
2.6	.722752189	.999818593	.999999977	.719087665	.999818628	.999999978
2.7	.750849952	.999847288	.999999981	.747479008	.999847064	.999999981
2.8	.776741781	.999871225	.999999984	.773659261	.999871109	.999999985
2.9	.800489002	.999891467	.999999987	.797685846	.999891430	.999999987
3.0	.822174163	.999903572	.999999989	.819638314	.999908592	.999999989
3.1	.841895623	.999923018	.999999991	.839612829	.999923080	.999999991
3.2	.859762821	.999935212	.999999992	.857717337	.999935302	.999999993
3.3	.875892232	.999945499	.999999994	.874067422	.999945607	.999999994
3.4	.890403972	.999954174	.999999995	.888782807	.999954292	.999999995
3.5	.903419010	.999961485	.999999996	.901984474	.999961607	.999999996
3.6	.915056915	.999967644	.999999996	.913792339	.999967766	.999999997
3.7	.925434106	.999972829	.999999997	.924323398	.999972948	.999999997
3.8	.934662508	.999977193	.999999998	.933690349	.999977307	.999999998
3.9	.942848587	.999980863	.999999998	.942000553	.999980971	.999999998
4.0	.950092685	.999983950	.999999998	.949355330	.999984050	.999999998
4.1	.956488616	.999986543	.999999999	.955849511	.999986636	.999999999
4.2	.962123469	.999988722	.999999999	.961571215	.999988807	.999999999
4.3	.967077578	.999990552	.999999999	.966601793	.999990629	.999999999
4.4	.971424623	.999992087	.999999999	.971015912	.999992157	.999999999
4.5	.975231838	.999993376	.999999999	.974881749	.999993439	.999999999
4.6	.978560285	.999994455	.999999999	.978261251	.999994513	.999999999
4.7	.981465181	.999995362	1.000000000	.981210465	.999995413	1.000000000
4.8	.983996262	.999996122		.983779892	.999996166	
4.9	.986198162	.999996757		.986014868	.999996797	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,3.65)$	$\Gamma(U+5,3.65)$	$\Gamma(U+10,3.65)$	$\Gamma(U,3.7)$	$\Gamma(U+5,3.7)$	$\Gamma(U+10,3.7)$
0.0	.000000000	.987798752	.999997358	.000000000	.987639185	.999997390
0.1	.000010005	.989506832	.999997796	.000008740	.989372320	.999997824
0.2	.000210668	.990785766	.999998162	.000190283	.990872684	.999998186
0.3	.001165484	.992264533	.999998467	.001072875	.992169728	.999998489
0.4	.003732904	.993368759	.999998722	.003481543	.993289500	.999998741
0.5	.008866747	.994321053	.999998935	.008351569	.994254978	.999998952
0.6	.017441000	.995141310	.999999113	.016556400	.995086385	.999999127
0.7	.030132480	.995847000	.999999261	.028787702	.995801480	.999999274
0.8	.047361303	.996453430	.999999385	.045490865	.996415821	.999999396
0.9	.069277657	.996973987	.999999485	.066846533	.996943014	.999999498
1.0	.095780917	.997420354	.999999574	.092785228	.997394931	.999999582
1.1	.126558329	.997802710	.999999646	.123022734	.997781917	.999999653
1.2	.161133103	.998129907	.999999705	.157106091	.998112965	.999999711
1.3	.198914494	.998409634	.999999755	.194462620	.998395884	.999999760
1.4	.239244932	.998648553	.999999796	.234446831	.998637443	.999999801
1.5	.281441276	.998852433	.999999831	.276382017	.998843498	.999999835
1.6	.324828757	.999026260	.999999859	.319594898	.999019111	.999999863
1.7	.368767255	.999174337	.999999883	.363442796	.999168651	.999999886
1.8	.412670266	.999300376	.999999903	.407333542	.999295883	.999999905
1.9	.456017306	.999407570	.999999920	.450738802	.999404045	.999999922
2.0	.498360750	.999498666	.999999933	.493201726	.999495925	.999999935
2.1	.539328133	.999575023	.999999945	.534339964	.999573913	.999999946
2.2	.579620948	.999641665	.999999954	.573845020	.999640060	.999999955
2.3	.616010846	.999697325	.999999962	.611478894	.999696124	.999999963
2.4	.651334060	.999744490	.999999968	.647068817	.999743607	.999999969
2.5	.684484722	.999784429	.999999974	.680500782	.999783797	.999999975
2.6	.715407619	.999818226	.999999978	.711712421	.999817790	.999999979
2.7	.744090814	.999846809	.999999982	.740685672	.999846523	.999999983
2.8	.770558445	.999870965	.999999985	.767439572	.999870795	.999999986
2.9	.794863925	.999891369	.999999988	.792023421	.999891286	.999999988
3.0	.817083703	.999908593	.999999990	.814510459	.999908574	.999999990
3.1	.837311649	.999923124	.999999992	.834992171	.999923151	.999999992
3.2	.855654133	.999935376	.999999993	.853573260	.999935436	.999999993
3.3	.872225769	.999945702	.999999994	.870367296	.999945784	.999999994
3.4	.887145824	.999954399	.999999995	.885493022	.999954494	.999999995
3.5	.900535240	.999961720	.999999996	.899071285	.999961822	.999999996
3.6	.912514222	.999967880	.999999997	.911222534	.999967985	.999999997
3.7	.923200321	.999973060	.999999997	.922064836	.999973165	.999999997
3.8	.932706973	.999977415	.999999998	.931712337	.999977516	.999999998
3.9	.941142415	.999981073	.999999998	.940274126	.999981170	.999999998
4.0	.948606927	.999984146	.999999998	.947853430	.999984236	.999999999
4.1	.955202349	.999986725	.999999999	.954547085	.999986809	.999999999
4.2	.961011823	.999988889	.999999999	.960445250	.999988966	.999999999
4.3	.966119714	.999990703	.999999999	.965631301	.999990774	.999999999
4.4	.970601676	.999992224	.999999999	.970181877	.999992288	.999999999
4.5	.974526328	.999993499	.999999999	.974167040	.999993557	.999999999
4.6	.977958008	.999994547	1.000000000	.977650523	.999994619	1.000000000
4.7	.980952045	.999995461		.980690041	.999995507	
4.8	.983560360	.999996209		.983337639	.999996250	
4.9	.985828844	.999996835		.985640070	.999996871	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,3.75)$	$\Gamma(U+5,3.75)$	$\Gamma(U+10,3.75)$	$\Gamma(U,3.8)$	$\Gamma(U+5,3.8)$	$\Gamma(U+10,3.8)$
0.0	.000000000	.987477232	.999997421	.000000000	.987312876	.999997451
0.1	.000007634	.989235760	.999997851	.000006666	.989097137	.999997878
0.2	.000171437	.990757847	.999998210	.000155148	.990641247	.999998233
0.3	.000987437	.992073426	.999998510	.000908630	.991975615	.999998530
0.4	.003246511	.993208963	.999998760	.003026792	.993127140	.999998777
0.5	.007864932	.994187815	.999998968	.007405354	.994119557	.999998983
0.6	.015714004	.995030537	.999999141	.014911958	.994973757	.999999155
0.7	.027498479	.995755176	.999999286	.026262756	.995708083	.999999297
0.8	.043687521	.996377548	.999999406	.041949197	.996338605	.999999416
0.9	.064491178	.996911477	.999999507	.062209658	.996879375	.999999515
1.0	.089870562	.997369022	.999999590	.087035249	.997342654	.999999597
1.1	.119569884	.997760721	.999999659	.116198441	.997739120	.999999666
1.2	.153160237	.998095681	.999999717	.149294579	.998078056	.999999723
1.3	.190087481	.998381846	.999999765	.185788484	.998367520	.999999770
1.4	.229718801	.998626029	.999999805	.225060586	.998614491	.999999809
1.5	.271384562	.998834357	.999999838	.266448952	.998825010	.999999842
1.6	.314413602	.999011788	.999999866	.309285144	.999004292	.999999869
1.7	.358161241	.999162818	.999999889	.352923043	.999156837	.999999891
1.8	.402030121	.999291264	.999999908	.396760574	.999286521	.999999910
1.9	.445484426	.999400415	.999999924	.440254824	.999396678	.999999925
2.0	.488058366	.999493094	.999999937	.482931338	.999490173	.999999938
2.1	.529359883	.999571726	.999999947	.524388551	.999569463	.999999949
2.2	.569070600	.999638390	.999999956	.564298315	.999636655	.999999958
2.3	.606942903	.999694866	.999999964	.602403451	.999693553	.999999965
2.4	.642795011	.999742677	.999999970	.638513158	.999741699	.999999971
2.5	.676504727	.999783124	.999999975	.672497002	.999782411	.999999976
2.6	.708002446	.999817318	.999999980	.704278069	.999816812	.999999980
2.7	.737263886	.999846207	.999999983	.733825765	.999845862	.999999984
2.8	.764302884	.999870599	.999999986	.761148625	.999870377	.999999986
2.9	.789164517	.999891180	.999999988	.786287401	.999891052	.999999989
3.0	.811918716	.999908523	.999999990	.809308613	.999908478	.999999991
3.1	.832654486	.999923162	.999999992	.830298688	.999923157	.999999992
3.2	.851474775	.999935482	.999999993	.849358736	.999935513	.999999994
3.3	.868492032	.999945853	.999999995	.866600002	.999945910	.999999995
3.4	.883824407	.999954578	.999999996	.882139982	.999954652	.999999996
3.5	.897592596	.999961916	.999999996	.896099161	.999962000	.999999996
3.6	.909917249	.999968082	.999999997	.908598340	.999968171	.999999997
3.7	.920916907	.999973262	.999999997	.919756498	.999973352	.999999998
3.8	.930706398	.999977611	.999999998	.929689115	.999977700	.999999998
3.9	.939395642	.999981261	.999999998	.938506916	.999981347	.999999998
4.0	.947088792	.999984322	.999999999	.945314968	.999984404	.999999999
4.1	.953883673	.999986889	.999999999	.953212067	.999986965	.999999999
4.2	.959871452	.999989040	.999999999	.959290384	.999989110	.999999999
4.3	.965136512	.999990841	.999999999	.964635304	.999990906	.999999999
4.4	.969756475	.999992350	.999999999	.969325433	.999992408	.999999999
4.5	.973802350	.999993612	.999999999	.973432724	.999993665	.999999999
4.6	.977338767	.999994668	1.000000000	.977022707	.999994716	1.000000000
4.7	.980424278	.999995551		.980154776	.999995594	
4.8	.983111707	.999996289		.982882538	.999996327	
4.9	.985448524	.999996906		.985254185	.999996940	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U, P)$ 

U	$\Gamma(U, 3.85)$	$\Gamma(U+5, 3.85)$	$\Gamma(U+10, 3.85)$	$\Gamma(U, 3.9)$	$\Gamma(U+5, 3.9)$	$\Gamma(U+10, 3.9)$
0.0	.000000000	.987146096	.999997479	.000000000	.986976873	.999997507
0.1	.000005820	.988956434	.999997903	.000005080	.988813634	.999997927
0.2	.000140053	.990522865	.999998255	.000126402	.990402687	.999998277
0.3	.000835955	.991876282	.999998549	.000768949	.991775416	.999998568
0.4	.002821432	.993044019	.999998794	.002629531	.992959592	.999998810
0.5	.006971414	.994050195	.999998998	.006561767	.993979724	.999999012
0.6	.014148483	.994916041	.999999167	.013421865	.994957381	.999999180
0.7	.025078546	.995660195	.999999309	.023943919	.995611507	.999999319
0.8	.040273867	.996298989	.999999426	.038659553	.996258696	.999999435
0.9	.060000069	.996846703	.999999524	.057860538	.996813459	.999999532
1.0	.084277626	.997315794	.999999605	.081596049	.997288451	.999999612
1.1	.112907072	.997717112	.999999672	.109694438	.997694697	.999999678
1.2	.145508141	.998060088	.999999728	.141799936	.998041774	.999999733
1.3	.181565015	.998352903	.999999775	.177416441	.998337996	.999999779
1.4	.220471911	.998602649	.999999813	.215952472	.998590562	.999999817
1.5	.261575200	.998815456	.999999845	.256763294	.998805696	.999999848
1.6	.304209776	.998996620	.999999872	.299187723	.998988775	.999999875
1.7	.347728672	.999150709	.999999894	.342578417	.999144433	.999999896
1.8	.391525456	.999281653	.999999912	.386325303	.999276661	.999999914
1.9	.435050621	.999392826	.999999927	.429872432	.999388890	.999999929
2.0	.477821302	.999487163	.999999940	.472728904	.999484064	.999999941
2.1	.519426624	.999567175	.999999950	.514474747	.999564711	.999999951
2.2	.559528791	.999634856	.999999959	.554762646	.999632994	.999999960
2.3	.597861112	.999692186	.999999966	.593316462	.999690764	.999999967
2.4	.634223771	.999740675	.999999972	.629927365	.999739605	.999999973
2.5	.668478054	.999781658	.999999977	.664448333	.999780866	.999999977
2.6	.700539669	.999816272	.999999981	.696787627	.999815698	.999999981
2.7	.730371622	.999845488	.999999984	.726901769	.999845085	.999999985
2.8	.757977045	.999870131	.999999987	.754788395	.999869860	.999999987
2.9	.783392264	.999890903	.999999989	.780479302	.999890733	.999999989
3.0	.806680290	.999908403	.999999991	.804033891	.999908309	.999999991
3.1	.827924875	.999923135	.999999993	.825533147	.999923098	.999999993
3.2	.847225202	.999935531	.999999994	.845074237	.999935535	.999999994
3.3	.864591239	.999945955	.999999995	.862765775	.999945989	.999999995
3.4	.880439755	.999954716	.999999996	.878723734	.999954769	.999999996
3.5	.894590967	.999962075	.999999997	.893068006	.999962141	.999999997
3.6	.907265782	.999968252	.999999997	.905919552	.999968326	.999999997
3.7	.918583575	.999973436	.999999998	.917398104	.999973513	.999999998
3.8	.928660447	.999977793	.999999998	.927620354	.999977861	.999999998
3.9	.937507906	.999981427	.999999998	.936598566	.999981503	.999999998
4.0	.945531912	.999984480	.999999999	.944739577	.999984553	.999999999
4.1	.952532223	.999987037	.999999999	.951844093	.999987105	.999999999
4.2	.958702003	.999989177	.999999999	.958106265	.999989240	.999999999
4.3	.964127638	.999990967	.999999999	.963613470	.999991026	.999999999
4.4	.968888712	.999992454	.999999999	.968446272	.999992518	.999999999
4.5	.973058126	.999993716	1.000000000	.972578521	.999993764	1.000000000
4.6	.976702310	.999994751		.976377546	.999994805	
4.7	.979981506	.999995635		.979504440	.999995674	
4.8	.982550107	.999996354		.982414389	.999996399	
4.9	.985057029	.999996972		.984857036	.999997003	

TABLE 1 (CONTINUED)

THE INCOMPLETE GAMMA-FUNCTION RATIO,  $\Gamma(U,P)$ 

U	$\Gamma(U,3.95)$	$\Gamma(U+5,3.95)$	$\Gamma(U+10,3.95)$	$\Gamma(U,4)$	$\Gamma(U+5,4)$	$\Gamma(U+10,4)$
0.0	.000000000	.986805188	.999997533	.000000000	.986631021	.999997559
0.1	.000004434	.988668721	.999997950	.000003868	.988521678	.999997972
0.2	.000114059	.990280700	.999998297	.000102902	.990156889	.999998317
0.3	.000707182	.991673005	.999998586	.000550257	.991569036	.999998603
0.4	.002450244	.992873849	.999998826	.002282775	.992786718	.999998841
0.5	.006175128	.993908131	.999999026	.005810279	.993435411	.999999039
0.6	.012730453	.994797770	.999999192	.012072695	.994737202	.999999203
0.7	.022957007	.995562013	.999999330	.021916002	.995511708	.999999339
0.8	.037104325	.996217722	.999999444	.035606298	.996176061	.999999453
0.9	.055789223	.996779638	.999999539	.053784314	.996745237	.999999547
1.0	.078988887	.997260622	.999999618	.076454525	.997232302	.999999625
1.1	.106559203	.997671870	.999999684	.103500033	.997648631	.999999689
1.2	.138168966	.998023115	.999999738	.134614223	.998004108	.999999743
1.3	.173342110	.998322798	.999999783	.169341355	.998307306	.999999787
1.4	.211501947	.998578229	.999999821	.207119988	.998565649	.999999824
1.5	.252013199	.998795729	.999999852	.247324854	.998785554	.999999855
1.6	.294219189	.998980755	.999999877	.289304352	.998972561	.999999880
1.7	.337472784	.999138011	.999999898	.332412099	.999131442	.999999901
1.8	.381160632	.999271546	.999999916	.376031941	.999266306	.999999918
1.9	.424720853	.999384838	.999999931	.419596468	.999380682	.999999932
2.0	.467654780	.999480877	.999999943	.462599556	.999477601	.999999944
2.1	.509533559	.999562222	.999999953	.504603692	.999559659	.999999954
2.2	.550000495	.999631068	.999999961	.545242948	.999629079	.999999962
2.3	.588770069	.999689289	.999999968	.584222502	.999687760	.999999969
2.4	.625624454	.999738489	.999999973	.621315551	.999737328	.999999974
2.5	.660408287	.999780034	.999999978	.656358367	.999779165	.999999979
2.6	.693022325	.999815092	.999999982	.689244150	.999814452	.999999982
2.7	.723416524	.999844654	.999999985	.719916208	.999844194	.999999985
2.8	.751582930	.999869565	.999999988	.748360908	.999869245	.999999988
2.9	.777548712	.999890543	.999999990	.774500695	.999890331	.999999990
3.0	.801369564	.999908197	.999999992	.798587458	.999908068	.999999992
3.1	.823123607	.999923046	.999999993	.820596361	.999922978	.999999993
3.2	.842905909	.99993576	.999999994	.840720284	.999935504	.999999994
3.3	.860823647	.999946011	.999999995	.858864891	.999946022	.999999995
3.4	.876991931	.999954813	.999999996	.875244358	.999954847	.999999996
3.5	.891530268	.999962198	.999999997	.889977748	.999962248	.999999997
3.6	.904559626	.999968392	.999999997	.903185984	.999968451	.999999997
3.7	.916200053	.999973584	.999999998	.914989390	.999973648	.999999998
3.8	.926568796	.999977932	.999999998	.925505735	.999977999	.999999998
3.9	.935778854	.999981574	.999999999	.934548727	.999981640	.999999999
4.0	.943937919	.999984621	.999999999	.943126894	.999984685	.999999999
4.1	.951147634	.999987170	.999999999	.950442800	.999987231	.999999999
4.2	.957503125	.999989301	.999999999	.956892540	.999989358	.999999999
4.3	.963092759	.999991081	.999999999	.962565462	.999991134	.999999999
4.4	.967998076	.999992569	.999999999	.967544082	.999992617	.999999999
4.5	.972293871	.999993811	1.000000000	.971904142	.999993855	1.000000000
4.6	.976048381	.999994847		.975714782	.999994887	
4.7	.979323549	.999995711		.979038804	.999995747	
4.8	.982175357	.999996432		.981932985	.999996464	
4.9	.984654182	.999997033		.984448444	.999997061	

TABLE 2

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	P	0.1	0.2	0.3	0.4	0.5
.0001	0.116893E-79	0.121461E-39	0.271457E-26	0.130510E-19	0.134994E-15	
.0005	0.111478E-65	0.118614E-32	0.124023E-21	0.407843E-16	0.843712E-13	
.0010	0.116893E-59	0.121461E-29	0.125999E-19	0.130510E-14	0.134994E-11	
.0050	0.111478E-45	0.118614E-22	0.575663E-15	0.407843E-11	0.843712E-09	
.0100	0.116893E-39	0.121461E-19	0.584837E-13	0.130510E-09	0.134994E-07	
.0250	0.106313E-31	0.115834E-15	0.263007E-10	0.127451E-07	0.527320E-06	
.0500	0.111478E-25	0.118614E-12	0.267199E-08	0.407843E-06	0.843715E-05	
.1000	0.116893E-19	0.121461E-09	0.271457E-04	0.130510E-04	0.135001E-03	
.2000	0.122571E-13	0.124376E-06	0.275787E-04	0.417703E-02	0.216177E-02	
.3000	0.407579E-10	0.717217E-05	0.411706E-03	0.317558E-01	0.109826E-01	
.4000	0.128525E-07	0.127368E-03	0.280520E-02	0.134391E-01	0.350448E-01	
.5000	0.111478E-05	0.118678E-02	0.124496E-01	0.414927E-01	0.873476E-01	
.6000	0.427387E-04	0.736890E-02	0.425976E-01	0.106021E-00	0.188412E-00	
.7000	0.933127E-03	0.348556E-01	0.123216E-00	0.242075E-00	0.374696E-00	
.8000	0.135640E-01	0.138790E-00	0.326574E-00	0.527087E 00	0.726170E 00	
.9000	0.152634E-00	0.532309E 00	0.889597E 00	0.120980E 01	0.150078E 01	
.9500	0.531865E 00	0.116087E 01	0.165117E 01	0.206105E 01	0.242023E 01	
.9750	0.113435E 01	0.195581E 01	0.254506E 01	0.402221E 01	0.743324E 01	
.9900	0.217525E 01	0.317696E 01	0.386119E 01	0.440461E 01	0.486777E 01	
.9950	0.308925E 01	0.418912E 01	0.492727E 01	0.550939E 01	0.600362E 01	
.9990	0.547292E 01	0.672735E 01	0.755521E 01	0.820393E 01	0.875289E 01	
.9995	0.657533E 01	0.787676E 01	0.873335E 01	0.940409E 01	0.997154E 01	
.9999	0.924820E 01	0.106325E 02	0.115418E 02	0.122539E 02	0.128566E 02	
P	P	0.6	0.7	0.8	0.9	1.0
.0001	0.647288E-13	0.536368E-11	0.148307E-09	0.197223E-08	0.157080E-07	
.0005	0.138356E-10	0.532746E-09	0.929062E-08	0.705058E-07	0.392699E-06	
.0010	0.139454E-09	0.386016E-08	0.468988E-07	0.328988E-06	0.157080E-05	
.0050	0.298079E-07	0.383410E-06	0.262173E-05	0.117611E-04	0.392704E-04	
.0100	0.300445E-06	0.277811E-05	0.148308E-04	0.548796E-04	0.157088E-03	
.0250	0.637136E-05	0.380826E-04	0.146566E-03	0.420510E-03	0.982069E-03	
.0500	0.642207E-04	0.275963E-03	0.829307E-03	0.196319E-02	0.393214E-02	
.1000	0.647449E-03	0.200084E-02	0.469775E-02	0.918331E-02	0.157908E-01	
.2000	0.654068E-02	0.145652E-01	0.267845E-01	0.433564E-01	0.641848E-01	
.3000	0.254533E-01	0.469482E-01	0.750838E-01	0.109174E-00	0.148472E-00	
.4000	0.674796E-01	0.109267E-00	0.158724E-00	0.214367E-00	0.274996E-00	
.5000	0.146252E-00	0.214739E-00	0.290156E-00	0.370657E-00	0.454936E-00	
.6000	0.282505E-00	0.383777E-00	0.489505E-00	0.598032E 00	0.708326E 00	
.7000	0.513130E 00	0.653661E 00	0.794514E 00	0.934828E 00	0.107419E 01	
.8000	0.920148E 00	0.110838E 01	0.129114E 01	0.146896E 01	0.164237E 01	
.9000	0.176962E 01	0.202139E 01	0.225969E 01	0.248710E 01	0.270554E 01	
.9500	0.274470E 01	0.304392E 01	0.332392E 01	0.358891E 01	0.384146E 01	
.9750	0.380053E 01	0.413667E 01	0.444943E 01	0.474398E 01	0.502389E 01	
.9900	0.527882E 01	0.565317E 01	0.600019E 01	0.632602E 01	0.663490E 01	
.9950	0.644114E 01	0.683899E 01	0.720709E 01	0.755241E 01	0.787944E 01	
.9990	0.923787E 01	0.967813E 01	0.100852E 02	0.104666E 02	0.108276E 02	
.9995	0.104728E 02	0.109278E 02	0.113485E 02	0.117427E 02	0.121157E 02	
.9999	0.133893E 02	0.138731E 02	0.143205E 02	0.147399E 02	0.151367E 02	



TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	1.1	1.2	1.3	1.4	1.5
.0001	0.861549E-07	0.357163E-06	0.119364E-05	0.336747E-05	0.829515E-05	
.0005	0.160744E-05	0.522177E-05	0.141976E-04	0.335611E-04	0.709238E-04	
.0010	0.566843E-05	0.165781E-04	0.412422E-04	0.903413E-04	0.178722E-03	
.0050	0.105762E-03	0.242391E-03	0.490613E-03	0.900572E-03	0.152864E-02	
.0100	0.372989E-03	0.769670E-03	0.142556E-02	0.242525E-02	0.385450E-02	
.0250	0.197446E-02	0.354744E-02	0.584496E-02	0.899664E-02	0.131130E-01	
.0500	0.697388E-02	0.112897E-01	0.170353E-01	0.243264E-01	0.332328E-01	
.1000	0.247335E-01	0.361209E-01	0.499825E-01	0.662910E-01	0.849810E-01	
.2000	0.890340E-01	0.117607E-00	0.149589E-00	0.184677E-00	0.222586E-00	
.3000	0.192278E-00	0.239978E-00	0.291046E-00	0.345040E-00	0.401589E-00	
.4000	0.339657E-00	0.407645E-00	0.478359E-00	0.551360E 00	0.626292E 00	
.5000	0.542073E 00	0.631404E 00	0.722448E 00	0.814847E 00	0.908334E 00	
.6000	0.819731E 00	0.931818E 00	0.104430E 01	0.115700E 01	0.126978E 01	
.7000	0.121244E 01	0.134950E 01	0.148538E 01	0.162013E 01	0.175379E 01	
.8000	0.181190E 01	0.197798E 01	0.214100E 01	0.230129E 01	0.245912E 01	
.9000	0.291647E 01	0.312101E 01	0.332003E 01	0.351426E 01	0.370426E 01	
.9500	0.408400E 01	0.431902E 01	0.454478E 01	0.476524E 01	0.498020E 01	
.9750	0.529176E 01	0.554955E 01	0.579874E 01	0.604051E 01	0.627581E 01	
.9900	0.692986E 01	0.721318E 01	0.748660E 01	0.775148E 01	0.800890E 01	
.9950	0.819147E 01	0.849097E 01	0.877980E 01	0.905943E 01	0.933102E 01	
.9990	0.111717E 02	0.115017E 02	0.118198E 02	0.121275E 02	0.124262E 02	
.9995	0.124712E 02	0.128122E 02	0.131408E 02	0.134587E 02	0.137672E 02	
.9999	0.155151E 02	0.158780E 02	0.162277E 02	0.165660E 02	0.168944E 02	
P	$\nu$	1.6	1.7	1.8	1.9	2.0
.0001	0.182997E-04	0.368620E-04	0.688306E-04	0.120566E-03	0.200010E-03	
.0005	0.136826E-03	0.244862E-03	0.411580E-03	0.656211E-03	0.100025E-02	
.0010	0.325447E-03	0.553490E-03	0.889173E-03	0.136143E-02	0.200100E-02	
.0050	0.243471E-02	0.367955E-02	0.532263E-02	0.742041E-02	0.100251E-01	
.0100	0.579615E-02	0.832707E-02	0.115163E-01	0.154238E-01	0.201007E-01	
.0250	0.182839E-01	0.245789E-01	0.320486E-01	0.407274E-01	0.506356E-01	
.0500	0.437951E-01	0.560263E-01	0.699189E-01	0.854503E-01	0.102587E-00	
.1000	0.105964E-00	0.129137E-00	0.154393E-00	0.181624E-00	0.210721E-00	
.2000	0.263057E-00	0.305858E-00	0.350783E-00	0.397647E-00	0.446287E-00	
.3000	0.460384E-00	0.521161E 00	0.583702E 00	0.647818E 00	0.713350E 00	
.4000	0.702871E 00	0.780867E 00	0.860094E 00	0.940398E 00	0.102165E 01	
.5000	0.100270E 01	0.109779E 01	0.119349E 01	0.128968E 01	0.138629E 01	
.6000	0.138254E 01	0.149524E 01	0.160783E 01	0.172028E 01	0.183258E 01	
.7000	0.189643E 01	0.201811E 01	0.214888E 01	0.227881E 01	0.240795E 01	
.8000	0.261474E 01	0.276336E 01	0.292015E 01	0.307028E 01	0.321888E 01	
.9000	0.389052E 01	0.407343E 01	0.425332E 01	0.443049E 01	0.460517E 01	
.9500	0.519029E 01	0.539605E 01	0.559792E 01	0.579629E 01	0.599146E 01	
.9750	0.650539E 01	0.672589E 01	0.694983E 01	0.716566E 01	0.737776E 01	
.9900	0.825976E 01	0.850477E 01	0.874454E 01	0.897959E 01	0.921034E 01	
.9950	0.959554E 01	0.985375E 01	0.101063E 02	0.103538E 02	0.105966E 02	
.9990	0.127169E 02	0.130005E 02	0.132778E 02	0.135492E 02	0.138155E 02	
.9995	0.140675E 02	0.143604E 02	0.146466E 02	0.149269E 02	0.152018E 02	
.9999	0.172139E 02	0.175255E 02	0.178301E 02	0.181283E 02	0.184207E 02	

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	2.1	2.2	2.3	2.4	2.5
.0001		0.316675E-03	0.481566E-03	0.707046E-03	0.100666E-02	0.139492E-02
.0005		0.146697E-02	0.208089E-02	0.286725E-02	0.385157E-02	0.505917E-02
.0010		0.283963E-02	0.390932E-02	0.524169E-02	0.686743E-02	0.881588E-02
.0050		0.131838E-01	0.169385E-01	0.213252E-01	0.263750E-01	0.321134E-01
.0100		0.255889E-01	0.319216E-01	0.391249E-01	0.472174E-01	0.562121E-01
.0250		0.617817E-01	0.741649E-01	0.877765E-01	0.102602E-00	0.118623E-00
.0500		0.121286E-00	0.141504E-00	0.163188E-00	0.186290E-00	0.210758E-00
.1000		0.241582E-00	0.274109E-00	0.308210E-00	0.343797E-00	0.380789E-00
.2000		0.496559E-00	0.549335E 00	0.601500E 00	0.655952E 00	0.711599E 00
.3000		0.780160E 00	0.848131E 00	0.917160E 00	0.987156E 00	0.105804E 01
.4000		0.110375E 01	0.118660E 01	0.127012E 01	0.135425E 01	0.143894E 01
.5000		0.148327E 01	0.158055E 01	0.167810E 01	0.177587E 01	0.187385E 01
.6000		0.194471E 01	0.205667E 01	0.216846E 01	0.228007E 01	0.239150E 01
.7000		0.253634E 01	0.266403E 01	0.279107E 01	0.291749E 01	0.304333E 01
.8000		0.336606E 01	0.351195E 01	0.365662E 01	0.380018E 01	0.394268E 01
.9000		0.477756E 01	0.494791E 01	0.511630E 01	0.528292E 01	0.544788E 01
.9500		0.618373E 01	0.637333E 01	0.656047E 01	0.674533E 01	0.692808E 01
.9750		0.758645E 01	0.779202E 01	0.799471E 01	0.819474E 01	0.839230E 01
.9900		0.943713E 01	0.966042E 01	0.988035E 01	0.100972E 02	0.103112E 02
.9950		0.108352E 02	0.110700E 02	0.113011E 02	0.115290E 02	0.117538E 02
.9990		0.140770E 02	0.143341E 02	0.145871E 02	0.148364E 02	0.150822E 02
.9995		0.154717E 02	0.157370E 02	0.159981E 02	0.162553E 02	0.165089E 02
.9999		0.187077E 02	0.189899E 02	0.192675E 02	0.195409E 02	0.198104E 02
P	$\nu$	2.6	2.7	2.8	2.9	3.0
.0001		0.188710E-02	0.249901E-02	0.324678E-02	0.414666E-02	0.521483E-02
.0005		0.651481E-02	0.824242E-02	0.102648E-01	0.126036E-01	0.152790E-01
.0010		0.111147E-01	0.137896E-01	0.168644E-01	0.203605E-01	0.242976E-01
.0050		0.385615E-01	0.457355E-01	0.536482E-01	0.623083E-01	0.717218E-01
.0100		0.661161E-01	0.769326E-01	0.886606E-01	0.101296E-00	0.114832E-00
.0250		0.135816E-00	0.154157E-00	0.173619E-00	0.194175E-00	0.215795E-00
.0500		0.236541E-00	0.263589E-00	0.291853E-00	0.321287E-00	0.351846E-00
.1000		0.419112E-00	0.458695E-00	0.499473E-00	0.541385E 00	0.584374E 00
.2000		0.768361E 00	0.826162E 00	0.884938E 00	0.944526E 00	0.100517E 01
.3000		0.112975E 01	0.120221E 01	0.127539E 01	0.134921E 01	0.142365E 01
.4000		0.152413E 01	0.160979E 01	0.169587E 01	0.178234E 01	0.186917E 01
.5000		0.197200E 01	0.207030E 01	0.216874E 01	0.226730E 01	0.236597E 01
.6000		0.250277E 01	0.261386E 01	0.272479E 01	0.283556E 01	0.294617E 01
.7000		0.316862E 01	0.329340E 01	0.341768E 01	0.354150E 01	0.366487E 01
.8000		0.408420E 01	0.422481E 01	0.436455E 01	0.450347E 01	0.464163E 01
.9000		0.561130E 01	0.577327E 01	0.593389E 01	0.609324E 01	0.625139E 01
.9500		0.710886E 01	0.728780E 01	0.746503E 01	0.764064E 01	0.781473E 01
.9750		0.858755E 01	0.878067E 01	0.897176E 01	0.916097E 01	0.934840E 01
.9900		0.105226E 02	0.107315E 02	0.109381E 02	0.111425E 02	0.113449E 02
.9950		0.119757E 02	0.121949E 02	0.124116E 02	0.126260E 02	0.128382E 02
.9990		0.153247E 02	0.155642E 02	0.158009E 02	0.160348E 02	0.162662E 02
.9995		0.167591E 02	0.170061E 02	0.172502E 02	0.174914E 02	0.177300E 02
.9999		0.200763E 02	0.203387E 02	0.205979E 02	0.208542E 02	0.211075E 02

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	3.1	3.2	3.3	3.4	3.5
.0001		0.646729E-02	0.791963E-02	0.958702E-02	0.114840E-01	0.136246E-01
.0005		0.183096E-01	0.217126E-01	0.255038E-01	0.296973E-01	0.343058E-01
.0010		0.286929E-01	0.335617E-01	0.389175E-01	0.447717E-01	0.511340E-01
.0050		0.818915E-01	0.928181E-01	0.104500E-00	0.116934E-00	0.130116E-00
.0100		0.129259E-00	0.144568E-00	0.160745E-00	0.177777E-00	0.195651E-00
.0250		0.238452E-00	0.262116E-00	0.286760E-00	0.312355E-00	0.338873E-00
.0500		0.383487E-00	0.416168E-00	0.449850E-00	0.484495E-00	0.520069E 00
.1000		0.628389E 00	0.673381E 00	0.719304E 00	0.766116E 00	0.813778E 00
.2000		0.106653E 01	0.112865E 01	0.119149E 01	0.125502E 01	0.131920E 01
.3000		0.149867E 01	0.157422E 01	0.165027E 01	0.172681E 01	0.180379E 01
.4000		0.195634E 01	0.204382E 01	0.213160E 01	0.221964E 01	0.230795E 01
.5000		0.246474E 01	0.255359E 01	0.266252E 01	0.276152E 01	0.286059E 01
.6000		0.305662E 01	0.316694E 01	0.327710E 01	0.338713E 01	0.349703E 01
.7000		0.378783E 01	0.391038E 01	0.403256E 01	0.415437E 01	0.427583E 01
.8000		0.477906E 01	0.491580E 01	0.505188E 01	0.518735E 01	0.532222E 01
.9000		0.640841E 01	0.656437E 01	0.671931E 01	0.687329E 01	0.702636E 01
.9500		0.798738E 01	0.815868E 01	0.832869E 01	0.849749E 01	0.866512E 01
.9750		0.953416E 01	0.971832E 01	0.990099E 01	0.100822E 02	0.102621E 02
.9900		0.115453E 02	0.117439E 02	0.119407E 02	0.121359E 02	0.123296E 02
.9950		0.130482E 02	0.132563E 02	0.134625E 02	0.136669E 02	0.138696E 02
.9990		0.164953E 02	0.167220E 02	0.169466E 02	0.171692E 02	0.173899E 02
.9995		0.179661E 02	0.181998E 02	0.184313E 02	0.186607E 02	0.188880E 02
.9999		0.213582E 02	0.216063E 02	0.218520E 02	0.220954E 02	0.223365E 02
P	$\nu$	3.6	3.7	3.8	3.9	4.0
.0001		0.160220E-01	0.186887E-01	0.216365E-01	0.248764E-01	0.284185E-01
.0005		0.393405E-01	0.448115E-01	0.507273E-01	0.570954E-01	0.639220E-01
.0010		0.580128E-01	0.654145E-01	0.733444E-01	0.818067E-01	0.908040E-01
.0050		0.144039E-00	0.158696E-00	0.174079E-00	0.190180E-00	0.206989E-00
.0100		0.214351E-00	0.233863E-00	0.254170E-00	0.275258E-00	0.297109E-00
.0250		0.366289E-00	0.394577E-00	0.423710E-00	0.453665E-00	0.484419E-00
.0500		0.556536E 00	0.593865E 00	0.632025E 00	0.670987E 00	0.710723E 00
.1000		0.862253E 00	0.911506E 00	0.961505E 00	0.101222E 01	0.106362E 01
.2000		0.138399E 01	0.144937E 01	0.151531E 01	0.158179E 01	0.164878E 01
.3000		0.188121E 01	0.195902E 01	0.203722E 01	0.211579E 01	0.219470E 01
.4000		0.239650E 01	0.248527E 01	0.257426E 01	0.266346E 01	0.275284E 01
.5000		0.295971E 01	0.305889E 01	0.315811E 01	0.325738E 01	0.335669E 01
.6000		0.360679E 01	0.371643E 01	0.382595E 01	0.393534E 01	0.404463E 01
.7000		0.439696E 01	0.451777E 01	0.463828E 01	0.475850E 01	0.487843E 01
.8000		0.545653E 01	0.559030E 01	0.572356E 01	0.585632E 01	0.598862E 01
.9000		0.717856E 01	0.732994E 01	0.748052E 01	0.763034E 01	0.777944E 01
.9500		0.883165E 01	0.899714E 01	0.916161E 01	0.932513E 01	0.948773E 01
.9750		0.104407E 02	0.106181E 02	0.107942E 02	0.109693E 02	0.111433E 02
.9900		0.125217E 02	0.127124E 02	0.129018E 02	0.130899E 02	0.132767E 02
.9950		0.140707E 02	0.142702E 02	0.144683E 02	0.146650E 02	0.148603E 02
.9990		0.176086E 02	0.178257E 02	0.180410E 02	0.182547E 02	0.184668E 02
.9995		0.191134E 02	0.193370E 02	0.195588E 02	0.197789E 02	0.199974E 02
.9999		0.225756E 02	0.228127E 02	0.230479E 02	0.232812E 02	0.235127E 02

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

$\nu$	4.1	4.2	4.3	4.4	4.5
001	0.322722E-01	0.364463E-01	0.409487E-01	0.457865E-01	0.509662E-01
005	0.712126E-01	0.789712E-01	0.872013E-01	0.959054E-01	0.105085E-00
010	0.100338E-00	0.110410E-00	0.121020E-00	0.132168E-00	0.143850E-00
050	0.224496E-00	0.242691E-00	0.261564E-00	0.281104E-00	0.301300E-00
100	0.319710E-00	0.343044E-00	0.367095E-00	0.391849E-00	0.417290E-00
250	0.515947E 00	0.548228E 00	0.581242E 00	0.614967E 00	0.649385E 00
500	0.751207E 00	0.792415E 00	0.834321E 00	0.876904E 00	0.920143E 00
1000	0.111569E 01	0.116839E 01	0.122170E 01	0.127560E 01	0.133007E 01
2000	0.171625E 01	0.178420E 01	0.185259E 01	0.192141E 01	0.199065E 01
3000	0.227394E 01	0.235350E 01	0.243337E 01	0.251352E 01	0.259395E 01
4000	0.284241E 01	0.293216E 01	0.302207E 01	0.311213E 01	0.320235E 01
5000	0.345604E 01	0.355542E 01	0.365484E 01	0.375428E 01	0.385375E 01
6000	0.415380E 01	0.426286E 01	0.437182E 01	0.448068E 01	0.458944E 01
7000	0.499810E 01	0.511750E 01	0.523666E 01	0.535557E 01	0.547425E 01
8000	0.612046E 01	0.625186E 01	0.638285E 01	0.651343E 01	0.664363E 01
9000	0.792785E 01	0.807559E 01	0.822268E 01	0.836917E 01	0.851506E 01
500	0.964945E 01	0.981032E 01	0.997038E 01	0.101297E 02	0.102882E 02
750	0.113162E 02	0.114882E 02	0.116592E 02	0.118293E 02	0.119985E 02
900	0.134623E 02	0.136468E 02	0.138302E 02	0.140125E 02	0.141938E 02
950	0.150543E 02	0.152470E 02	0.154386E 02	0.156290E 02	0.158183E 02
990	0.186775E 02	0.188867E 02	0.190946E 02	0.193011E 02	0.195064E 02
995	0.202143E 02	0.204297E 02	0.206437E 02	0.208563E 02	0.210675E 02
999	0.237426E 02	0.239709E 02	0.241975E 02	0.244227E 02	0.246464E 02
$\nu$	4.6	4.7	4.8	4.9	5.0
001	0.564938E-01	0.623744E-01	0.686126E-01	0.752124E-01	0.821774E-01
005	0.114742E-00	0.124876E-00	0.135487E-00	0.146575E-00	0.158138E-00
010	0.156067E-00	0.168815E-00	0.182091E-00	0.195891E-00	0.210213E-00
050	0.322141E-00	0.342617E-00	0.365716E-00	0.388428E-00	0.411742E-00
100	0.443403E-00	0.470175E-00	0.497590E-00	0.525636E 00	0.554298E 00
250	0.684475E 00	0.720220E 00	0.756602E 00	0.793605E 00	0.831212E 00
500	0.964015E 00	0.100850E 01	0.105359E 01	0.109925E 01	0.114548E 01
1000	0.138509E 01	0.144064E 01	0.149671E 01	0.155327E 01	0.161031E 01
2000	0.206029E 01	0.213031E 01	0.220070E 01	0.227144E 01	0.234253E 01
3000	0.267465E 01	0.275560E 01	0.283680E 01	0.291824E 01	0.299991E 01
4000	0.329272E 01	0.338322E 01	0.347385E 01	0.356461E 01	0.365550E 01
5000	0.395325E 01	0.405277E 01	0.415231E 01	0.425188E 01	0.435146E 01
6000	0.469811E 01	0.480668E 01	0.491516E 01	0.502356E 01	0.513187E 01
7000	0.559271E 01	0.571095E 01	0.582897E 01	0.594680E 01	0.606443E 01
8000	0.677346E 01	0.690292E 01	0.703204E 01	0.716082E 01	0.728928E 01
9000	0.866038E 01	0.880515E 01	0.894940E 01	0.909312E 01	0.923636E 01
00	0.104460E 02	0.106031E 02	0.107596E 02	0.109153E 02	0.110705E 02
50	0.121669E 02	0.123345E 02	0.125012E 02	0.126672E 02	0.128325E 02
00	0.143741E 02	0.145535E 02	0.147320E 02	0.149096E 02	0.150863E 02
50	0.160066E 02	0.161938E 02	0.163800E 02	0.165653E 02	0.167496E 02
90	0.197104E 02	0.199132E 02	0.201149E 02	0.203155E 02	0.205150E 02
95	0.212775E 02	0.214862E 02	0.216937E 02	0.219001E 02	0.221053E 02
99	0.248687E 02	0.250897E 02	0.253093E 02	0.255277E 02	0.257448E 02

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	5.1	5.2	5.3	5.4	5.5
.0001		0.895105E-01	0.972142E-01	0.105291E-00	0.113741E-00	0.122568E-00
.0005		0.170174E-00	0.182683E-00	0.195661E-00	0.209106E-00	0.223013E-00
.0010		0.225051E-00	0.240402E-00	0.256260E-00	0.272622E-00	0.289481E-00
.0050		0.435647E-00	0.460133E-00	0.485190E-00	0.510807E-00	0.536975E-00
.0100		0.583564E-00	0.613420E-00	0.643853E-00	0.674853E-00	0.706407E-00
.0250		0.869407E-00	0.908176E-00	0.947504E-00	0.987377E-00	0.102778E-01
.0500		0.119225E-01	0.123955E-01	0.128736E-01	0.133568E-01	0.138448E-01
.1000		0.166781E-01	0.172577E-01	0.178416E-01	0.184298E-01	0.190221E-01
.2000		0.241396E-01	0.248570E-01	0.255776E-01	0.263012E-01	0.270277E-01
.3000		0.308180E-01	0.316389E-01	0.324620E-01	0.332870E-01	0.341140E-01
.4000		0.374650E-01	0.383762E-01	0.392884E-01	0.402016E-01	0.411160E-01
.5000		0.445106E-01	0.455068E-01	0.465031E-01	0.474996E-01	0.484962E-01
.6000		0.524009E-01	0.534824E-01	0.545631E-01	0.556430E-01	0.567222E-01
.7000		0.618187E-01	0.629912E-01	0.641620E-01	0.653310E-01	0.664984E-01
.8000		0.741742E-01	0.754526E-01	0.767280E-01	0.780006E-01	0.792704E-01
.9000		0.937911E-01	0.952140E-01	0.966324E-01	0.980465E-01	0.994563E-01
.9500		0.112250E-02	0.113790E-02	0.115324E-02	0.116852E-02	0.118376E-02
.9750		0.129971E-02	0.131609E-02	0.133241E-02	0.134867E-02	0.136486E-02
.9900		0.152622E-02	0.154373E-02	0.156116E-02	0.157851E-02	0.159580E-02
.9950		0.169330E-02	0.171156E-02	0.172973E-02	0.174782E-02	0.176583E-02
.9990		0.207135E-02	0.209109E-02	0.211074E-02	0.213030E-02	0.214976E-02
.9995		0.223095E-02	0.225126E-02	0.227146E-02	0.229157E-02	0.231158E-02
.9999		0.259608E-02	0.261756E-02	0.263893E-02	0.266019E-02	0.268134E-02
P	$\nu$	5.6	5.7	5.8	5.9	6.0
.0001		0.131770E-00	0.141350E-00	0.151307E-00	0.161641E-00	0.172352E-00
.0005		0.237385E-00	0.252213E-00	0.267495E-00	0.283228E-00	0.299408E-00
.0010		0.306834E-00	0.324674E-00	0.342997E-00	0.361796E-00	0.381067E-00
.0050		0.563682E-00	0.590921E-00	0.618681E-00	0.646952E-00	0.675727E-00
.0100		0.738503E-00	0.771130E-00	0.804277E-00	0.837934E-00	0.872090E-00
.0250		0.106870E-01	0.111013E-01	0.115206E-01	0.119447E-01	0.123734E-01
.0500		0.143376E-01	0.148350E-01	0.153370E-01	0.158433E-01	0.163538E-01
.1000		0.196184E-01	0.202185E-01	0.208225E-01	0.214301E-01	0.220413E-01
.2000		0.277570E-01	0.284890E-01	0.292238E-01	0.299611E-01	0.307009E-01
.3000		0.349428E-01	0.357734E-01	0.366058E-01	0.374398E-01	0.382755E-01
.4000		0.420313E-01	0.429475E-01	0.438646E-01	0.447826E-01	0.457015E-01
.5000		0.494930E-01	0.504899E-01	0.514869E-01	0.524840E-01	0.534812E-01
.6000		0.578006E-01	0.588784E-01	0.599555E-01	0.610318E-01	0.621076E-01
.7000		0.676641E-01	0.688282E-01	0.699907E-01	0.711518E-01	0.723114E-01
.8000		0.805375E-01	0.818020E-01	0.830640E-01	0.843235E-01	0.855806E-01
.9000		0.100862E-02	0.102264E-02	0.103662E-02	0.105056E-02	0.106446E-02
.9500		0.119893E-02	0.121406E-02	0.122914E-02	0.124417E-02	0.125916E-02
.9750		0.138099E-02	0.139706E-02	0.141308E-02	0.142903E-02	0.144494E-02
.9900		0.161301E-02	0.163015E-02	0.164723E-02	0.166424E-02	0.168119E-02
.9950		0.178376E-02	0.180162E-02	0.181940E-02	0.183711E-02	0.185476E-02
.9990		0.216913E-02	0.218842E-02	0.220762E-02	0.222674E-02	0.224577E-02
.9995		0.233150E-02	0.235132E-02	0.237106E-02	0.239071E-02	0.241028E-02
.9999		0.270240E-02	0.272335E-02	0.274420E-02	0.276497E-02	0.278563E-02

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	6.1	6.2	6.3	6.4	6.5
.0001		0.183439E-00	0.194902E-00	0.206740E-00	0.218950E-00	0.231533E-00
.0005		0.316030E-00	0.333091E-00	0.350587E-00	0.368514E-00	0.386866E-00
.0010		0.400804E-00	0.421001E-00	0.441653E-00	0.462755E-00	0.484300E-00
.0050		0.704995E 00	0.734749E 00	0.764979E 00	0.795677E 00	0.826835E 00
.0100		0.906736E 00	0.941861E 00	0.977456E 00	0.101351E 01	0.105002E 01
.0250		0.128068E 01	0.132447E 01	0.136870E 01	0.141336E 01	0.145845E 01
.0500		0.168686E 01	0.173874E 01	0.179102E 01	0.184369E 01	0.189673E 01
.1000		0.226560E 01	0.232741E 01	0.238954E 01	0.245200E 01	0.251478E 01
.2000		0.314431E 01	0.321878E 01	0.329347E 01	0.336839E 01	0.344353E 01
.3000		0.391128E 01	0.399516E 01	0.407920E 01	0.416338E 01	0.424770E 01
.4000		0.466213E 01	0.475418E 01	0.484631E 01	0.493851E 01	0.503079E 01
.5000		0.544785E 01	0.554759E 01	0.564734E 01	0.574710E 01	0.584687E 01
.6000		0.631827E 01	0.642571E 01	0.653310E 01	0.664043E 01	0.674769E 01
.7000		0.734695E 01	0.746263E 01	0.757817E 01	0.769358E 01	0.780886E 01
.8000		0.868354E 01	0.880878E 01	0.893381E 01	0.905862E 01	0.918323E 01
.9000		0.107833E 02	0.109217E 02	0.110597E 02	0.111974E 02	0.113347E 02
.9500		0.127410E 02	0.128900E 02	0.130385E 02	0.131866E 02	0.133342E 02
.9750		0.146079E 02	0.147659E 02	0.149234E 02	0.150804E 02	0.152369E 02
.9900		0.169808E 02	0.171490E 02	0.173167E 02	0.174838E 02	0.176504E 02
.9950		0.187234E 02	0.188985E 02	0.190730E 02	0.192468E 02	0.194201E 02
.9990		0.226474E 02	0.228362E 02	0.230243E 02	0.232117E 02	0.233984E 02
.9995		0.242977E 02	0.244917E 02	0.246850E 02	0.248775E 02	0.250693E 02
.9999		0.280621E 02	0.282671E 02	0.284711E 02	0.286744E 02	0.288768E 02
P	$\nu$	6.6	6.7	6.8	6.9	7.0
.0001		0.244486E-00	0.257808E-00	0.271496E-00	0.285550E-00	0.299967E-00
.0005		0.405641E-00	0.424834E-00	0.444440E-00	0.464455E-00	0.484875E-00
.0010		0.506284E 00	0.528700E 00	0.551545E 00	0.574811E 00	0.598494E 00
.0050		0.858446E 00	0.890501E 00	0.922992E 00	0.955913E 00	0.989256E 00
.0100		0.108697E 01	0.112436E 01	0.116217E 01	0.120040E 01	0.123904E 01
.0250		0.150394E 01	0.154984E 01	0.159613E 01	0.164281E 01	0.168987E 01
.0500		0.195015E 01	0.200393E 01	0.205806E 01	0.211253E 01	0.216735E 01
.1000		0.257786E 01	0.264124E 01	0.270491E 01	0.276887E 01	0.283311E 01
.2000		0.351888E 01	0.359444E 01	0.367021E 01	0.374617E 01	0.382232E 01
.3000		0.433216E 01	0.441676E 01	0.450149E 01	0.458635E 01	0.467133E 01
.4000		0.512315E 01	0.521557E 01	0.530806E 01	0.540061E 01	0.549324E 01
.5000		0.594664E 01	0.604643E 01	0.614621E 01	0.624601E 01	0.634581E 01
.6000		0.685491E 01	0.696206E 01	0.706916E 01	0.717621E 01	0.728321E 01
.7000		0.792401E 01	0.803904E 01	0.815396E 01	0.826875E 01	0.838343E 01
.8000		0.930762E 01	0.943182E 01	0.955582E 01	0.967963E 01	0.980325E 01
.9000		0.114718E 02	0.116085E 02	0.117450E 02	0.118812E 02	0.120170E 02
.9500		0.134816E 02	0.136286E 02	0.137751E 02	0.139213E 02	0.140671E 02
.9750		0.153930E 02	0.155486E 02	0.157037E 02	0.158585E 02	0.160128E 02
.9900		0.178164E 02	0.179819E 02	0.181469E 02	0.183113E 02	0.184753E 02
.9950		0.195927E 02	0.197648E 02	0.199363E 02	0.201073E 02	0.202777E 02
.9990		0.235844E 02	0.237698E 02	0.239544E 02	0.241385E 02	0.243219E 02
.9995		0.252604E 02	0.254507E 02	0.256404E 02	0.258294E 02	0.260178E 02
.9999		0.290785E 02	0.292793E 02	0.294795E 02	0.296788E 02	0.298775E 02

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	7.1	7.2	7.3	7.4	7.5
.0001		0.314744E-00	0.329881E-00	0.345373E-00	0.361220E-00	0.377418E-00
.0005		0.505695E 00	0.526911E 00	0.548519E 00	0.570514E 00	0.592892E 00
.0010		0.622588E 00	0.647089E 00	0.671990E 00	0.697287E 00	0.722975E 00
.0050		0.102301E 01	0.105718E 01	0.109175E 01	0.112671E 01	0.116206E 01
.0100		0.127809E 01	0.131753E 01	0.135736E 01	0.139757E 01	0.143816E 01
.0250		0.173730E 01	0.178509E 01	0.183324E 01	0.188174E 01	0.193059E 01
.0500		0.222250E 01	0.227797E 01	0.233376E 01	0.238986E 01	0.244626E 01
.1000		0.289762E 01	0.296239E 01	0.302743E 01	0.309272E 01	0.315826E 01
.2000		0.389867E 01	0.397519E 01	0.405190E 01	0.412878E 01	0.420584E 01
.3000		0.475643E 01	0.484166E 01	0.492700E 01	0.501245E 01	0.509802E 01
.4000		0.558592E 01	0.567866E 01	0.577146E 01	0.586433E 01	0.595725E 01
.5000		0.644562E 01	0.654543E 01	0.664525E 01	0.674508E 01	0.684491E 01
.6000		0.739015E 01	0.749705E 01	0.760389E 01	0.771069E 01	0.781744E 01
.7000		0.849800E 01	0.861246E 01	0.872681E 01	0.884106E 01	0.895520E 01
.8000		0.992669E 01	0.100500E 02	0.101730E 02	0.102960E 02	0.104187E 02
.9000		0.121526E 02	0.122880E 02	0.124230E 02	0.125578E 02	0.126924E 02
.9500		0.142126E 02	0.143577E 02	0.145025E 02	0.146470E 02	0.147912E 02
.9750		0.161667E 02	0.163201E 02	0.164732E 02	0.166260E 02	0.167783E 02
.9900		0.186388E 02	0.188018E 02	0.189644E 02	0.191265E 02	0.192882E 02
.9950		0.204476E 02	0.206170E 02	0.207859E 02	0.209543E 02	0.211222E 02
.9990		0.245047E 02	0.246869E 02	0.248685E 02	0.250496E 02	0.252301E 02
.9995		0.262055E 02	0.263925E 02	0.265790E 02	0.267649E 02	0.269501E 02
.9999		0.300755E 02	0.302727E 02	0.304693E 02	0.306652E 02	0.308605E 2

P	$\nu$	7.6	7.7	7.8	7.9	8.0
.0001		0.393965E-00	0.410859E-00	0.428097E-00	0.445676E-00	0.463594E-00
.0005		0.615649E 00	0.638780E 00	0.662282E 00	0.686150E 00	0.710379E 00
.0010		0.749049E 00	0.775504E 00	0.802335E 00	0.829537E 00	0.857105E 00
.0050		0.119779E 01	0.123390E 01	0.127037E 01	0.130721E 01	0.134441E 01
.0100		0.147911E 01	0.152043E 01	0.156211E 01	0.160413E 01	0.164650E 01
.0250		0.197977E 01	0.202928E 01	0.207911E 01	0.212927E 01	0.217973E 01
.0500		0.250296E 01	0.255996E 01	0.261724E 01	0.267480E 01	0.273264E 01
.1000		0.322405E 01	0.329007E 01	0.335633E 01	0.342282E 01	0.348954E 01
.2000		0.428306E 01	0.436045E 01	0.443800E 01	0.451571E 01	0.459357E 01
.3000		0.518369E 01	0.526947E 01	0.535535E 01	0.544134E 01	0.552742E 01
.4000		0.605022E 01	0.614325E 01	0.623633E 01	0.632946E 01	0.642264E 01
.5000		0.694474E 01	0.704458E 01	0.714442E 01	0.724427E 01	0.734412E 01
.6000		0.792415E 01	0.803081E 01	0.813742E 01	0.824400E 01	0.835053E 01
.7000		0.906925E 01	0.918319E 01	0.929704E 01	0.941080E 01	0.952446E 01
.8000		0.105413E 02	0.106637E 02	0.107860E 02	0.109081E 02	0.110301E 02
.9000		0.128267E 02	0.129608E 02	0.130946E 02	0.132282E 02	0.133616E 02
.9500		0.149350E 02	0.150785E 02	0.152217E 02	0.153647E 02	0.155073E 02
.9750		0.169303E 02	0.170819E 02	0.172331E 02	0.173840E 02	0.175345E 02
.9900		0.194494E 02	0.196102E 02	0.197706E 02	0.199306E 02	0.200902E 02
.9950		0.212897E 02	0.214567E 02	0.216232E 02	0.217893E 02	0.219550E 02
.9990		0.254100E 02	0.255894E 02	0.257683E 02	0.259466E 02	0.261245E 02
.9995		0.271348E 02	0.273189E 02	0.275025E 02	0.276855E 02	0.278680E 02
.9999		0.310552E 02	0.312492E 02	0.314426E 02	0.316354E 02	0.318276E 02

TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	8.1	8.2	8.3	8.4	8.5
.0001	0.481848E-00	0.500435E 00	0.519353E 00	0.538599E 00	0.558170E 00	0.578141E 00
.0005	0.734967E 00	0.759908E 00	0.785199E 00	0.810835E 00	0.836814E 00	0.863141E 00
.0010	0.885035E 00	0.913322E 00	0.941962E 00	0.970950E 00	0.100028E 01	0.100028E 01
.0050	0.138196E 01	0.141986E 01	0.145810E 01	0.149668E 01	0.153559E 01	0.157482E 01
.0100	0.168920E 01	0.173224E 01	0.177561E 01	0.181930E 01	0.186330E 01	0.190761E 01
.0250	0.223050E 01	0.228157E 01	0.233294E 01	0.238460E 01	0.243655E 01	0.248877E 01
.0500	0.279075E 01	0.284912E 01	0.290775E 01	0.296664E 01	0.302579E 01	0.308520E 01
.1000	0.355647E 01	0.362363E 01	0.369099E 01	0.375856E 01	0.382634E 01	0.389432E 01
.2000	0.467159E 01	0.474975E 01	0.482806E 01	0.490651E 01	0.498510E 01	0.506382E 01
.3000	0.561360E 01	0.569988E 01	0.578625E 01	0.587271E 01	0.595926E 01	0.604590E 01
.4000	0.651588E 01	0.660916E 01	0.670249E 01	0.679585E 01	0.688928E 01	0.698275E 01
.5000	0.744398E 01	0.754384E 01	0.764370E 01	0.774357E 01	0.784344E 01	0.794331E 01
.6000	0.845701E 01	0.856346E 01	0.866987E 01	0.877623E 01	0.888256E 01	0.898885E 01
.7000	0.963803E 01	0.975151E 01	0.986491E 01	0.997822E 01	0.100914E 02	0.102046E 02
.8000	0.111519E 02	0.112736E 02	0.113951E 02	0.115165E 02	0.116378E 02	0.117589E 02
.9000	0.134947E 02	0.136276E 02	0.137603E 02	0.138929E 02	0.140251E 02	0.141572E 02
.9500	0.156497E 02	0.157917E 02	0.159336E 02	0.160751E 02	0.162164E 02	0.163574E 02
.9750	0.176848E 02	0.178347E 02	0.179842E 02	0.181335E 02	0.182825E 02	0.184311E 02
.9900	0.202494E 02	0.204083E 02	0.205667E 02	0.207248E 02	0.208825E 02	0.210399E 02
.9950	0.221202E 02	0.222850E 02	0.224494E 02	0.226134E 02	0.227770E 02	0.229402E 02
.9990	0.263018E 02	0.264787E 02	0.266551E 02	0.268310E 02	0.270065E 02	0.271815E 02
.9995	0.280500E 02	0.282315E 02	0.284124E 02	0.285929E 02	0.287729E 02	0.289524E 02
.9999	0.320193E 02	0.322104E 02	0.324009E 02	0.325909E 02	0.327803E 02	0.329693E 02

P	$\nu$	8.6	8.7	8.8	8.9	9.0
.0001	0.578064E 00	0.598277E 00	0.618808E 00	0.639653E 00	0.660809E 00	0.682280E 00
.0005	0.863130E 00	0.889781E 00	0.916762E 00	0.944069E 00	0.971699E 00	0.999660E 00
.0010	0.102995E 01	0.105996E 01	0.109030E 01	0.112096E 01	0.115195E 01	0.118326E 01
.0050	0.157482E 01	0.161438E 01	0.165425E 01	0.169444E 01	0.173493E 01	0.177571E 01
.0100	0.190762E 01	0.195224E 01	0.199716E 01	0.204239E 01	0.208790E 01	0.213369E 01
.0250	0.248877E 01	0.254127E 01	0.259405E 01	0.264709E 01	0.270039E 01	0.275394E 01
.0500	0.308518E 01	0.314481E 01	0.320468E 01	0.326478E 01	0.332511E 01	0.338566E 01
.1000	0.389432E 01	0.396249E 01	0.403086E 01	0.409942E 01	0.416816E 01	0.423708E 01
.2000	0.506382E 01	0.514269E 01	0.522168E 01	0.530080E 01	0.538005E 01	0.545943E 01
.3000	0.604590E 01	0.613263E 01	0.621944E 01	0.630633E 01	0.639331E 01	0.648038E 01
.4000	0.698275E 01	0.707626E 01	0.716981E 01	0.726340E 01	0.735703E 01	0.745070E 01
.5000	0.794331E 01	0.804319E 01	0.814307E 01	0.824295E 01	0.834283E 01	0.844270E 01
.6000	0.898885E 01	0.909510E 01	0.920132E 01	0.930750E 01	0.941364E 01	0.951974E 01
.7000	0.102046E 02	0.103177E 02	0.104306E 02	0.105435E 02	0.106564E 02	0.107692E 02
.8000	0.117589E 02	0.118799E 02	0.120008E 02	0.121215E 02	0.122421E 02	0.123626E 02
.9000	0.141572E 02	0.142891E 02	0.144208E 02	0.145523E 02	0.146837E 02	0.148149E 02
.9500	0.163574E 02	0.164981E 02	0.166387E 02	0.167789E 02	0.169190E 02	0.170589E 02
.9750	0.184311E 02	0.185794E 02	0.187275E 02	0.188753E 02	0.190228E 02	0.191700E 02
.9900	0.210399E 02	0.211969E 02	0.213536E 02	0.215100E 02	0.216660E 02	0.218216E 02
.9950	0.229402E 02	0.231031E 02	0.232655E 02	0.234276E 02	0.235893E 02	0.237506E 02
.9990	0.271815E 02	0.273561E 02	0.275302E 02	0.277039E 02	0.278772E 02	0.280500E 02
.9995	0.289524E 02	0.291314E 02	0.293100E 02	0.294881E 02	0.296658E 02	0.298430E 02
.9999	0.329693E 02	0.331577E 02	0.333456E 02	0.335330E 02	0.337199E 02	0.339063E 02



TABLE 2 (CONTINUED)

## PERCENTAGE POINTS OF THE CHI-SQUARE DISTRIBUTION

P	$\nu$	9.1	9.2	9.3	9.4	9.5
.0001	0.682274E 00	0.704046E 00	0.726121E 00	0.748497E 00	0.771171E 00	0.794046E 00
.0005	0.999649E 00	0.102791E 01	0.105649E 01	0.108538E 01	0.111457E 01	0.114406E 01
.0010	0.118326E 01	0.121488E 01	0.124681E 01	0.127905E 01	0.131159E 01	0.134443E 01
.0050	0.177573E 01	0.181682E 01	0.185821E 01	0.189989E 01	0.194186E 01	0.198411E 01
.0100	0.213370E 01	0.217979E 01	0.222616E 01	0.227280E 01	0.231971E 01	0.236689E 01
.0250	0.275395E 01	0.280777E 01	0.286183E 01	0.291614E 01	0.297070E 01	0.302549E 01
.0500	0.338567E 01	0.344645E 01	0.350746E 01	0.356867E 01	0.363010E 01	0.369174E 01
.1000	0.423709E 01	0.430619E 01	0.437548E 01	0.444494E 01	0.451456E 01	0.458436E 01
.2000	0.545943E 01	0.553893E 01	0.561854E 01	0.569828E 01	0.577813E 01	0.585810E 01
.3000	0.648036E 01	0.656749E 01	0.665470E 01	0.674199E 01	0.682935E 01	0.691678E 01
.4000	0.745071E 01	0.754442E 01	0.763818E 01	0.773197E 01	0.782579E 01	0.791966E 01
.5000	0.844272E 01	0.854261E 01	0.864250E 01	0.874240E 01	0.884230E 01	0.894220E 01
.6000	0.951975E 01	0.962582E 01	0.973186E 01	0.983787E 01	0.994384E 01	0.100498E 02
.7000	0.107691E 02	0.108818E 02	0.109944E 02	0.111069E 02	0.112194E 02	0.113318E 02
.8000	0.123626E 02	0.124830E 02	0.126033E 02	0.127234E 02	0.128435E 02	0.129634E 02
.9000	0.148148E 02	0.149457E 02	0.150765E 02	0.152071E 02	0.153375E 02	0.154678E 02
.9500	0.170588E 02	0.171983E 02	0.173377E 02	0.174768E 02	0.176157E 02	0.177544E 02
.9750	0.191700E 02	0.193169E 02	0.194636E 02	0.196100E 02	0.197562E 02	0.199020E 02
.9900	0.218217E 02	0.219771E 02	0.221321E 02	0.222869E 02	0.224413E 02	0.225955E 02
.9950	0.237507E 02	0.239118E 02	0.240725E 02	0.242328E 02	0.243928E 02	0.245524E 02
.9990	0.280500E 02	0.282225E 02	0.283946E 02	0.285662E 02	0.287375E 02	0.289084E 02
.9995	0.298431E 02	0.300199E 02	0.301963E 02	0.303723E 02	0.305478E 02	0.307230E 02
.9999	0.339064E 02	0.340924E 02	0.342779E 02	0.344629E 02	0.346475E 02	0.348317E 02
P	$\nu$	9.6	9.7	9.8	9.9	10.0
.0001	0.794140E 00	0.817403E 00	0.840955E 00	0.864795E 00	0.888920E 00	0.913330E 00
.0005	0.114406E 01	0.117385E 01	0.120394E 01	0.123432E 01	0.126498E 01	0.129590E 01
.0010	0.134443E 01	0.137758E 01	0.141101E 01	0.144473E 01	0.147874E 01	0.151304E 01
.0050	0.198411E 01	0.202664E 01	0.206944E 01	0.211252E 01	0.215586E 01	0.219946E 01
.0100	0.236689E 01	0.241434E 01	0.246204E 01	0.251000E 01	0.255821E 01	0.260668E 01
.0250	0.302549E 01	0.308052E 01	0.313577E 01	0.319126E 01	0.324697E 01	0.330290E 01
.0500	0.369174E 01	0.375358E 01	0.381562E 01	0.387786E 01	0.394030E 01	0.399294E 01
.1000	0.458436E 01	0.465433E 01	0.472445E 01	0.479474E 01	0.486518E 01	0.493578E 01
.2000	0.585810E 01	0.593818E 01	0.601837E 01	0.609867E 01	0.617908E 01	0.625960E 01
.3000	0.691678E 01	0.700429E 01	0.709186E 01	0.717951E 01	0.726722E 01	0.735500E 01
.4000	0.791966E 01	0.801356E 01	0.810750E 01	0.820147E 01	0.829547E 01	0.838950E 01
.5000	0.894220E 01	0.904210E 01	0.914200E 01	0.924191E 01	0.934182E 01	0.944174E 01
.6000	0.100498E 02	0.101557E 02	0.102616E 02	0.103674E 02	0.104732E 02	0.105790E 02
.7000	0.113318E 02	0.114441E 02	0.115564E 02	0.116686E 02	0.117807E 02	0.118928E 02
.8000	0.129634E 02	0.130832E 02	0.132029E 02	0.133225E 02	0.134420E 02	0.135614E 02
.9000	0.154678E 02	0.155979E 02	0.157278E 02	0.158576E 02	0.159872E 02	0.161167E 02
.9500	0.177544E 02	0.178929E 02	0.180311E 02	0.181692E 02	0.183070E 02	0.184446E 02
.9750	0.199020E 02	0.200477E 02	0.201931E 02	0.203383E 02	0.204832E 02	0.206279E 02
.9900	0.225955E 02	0.227494E 02	0.229029E 02	0.230562E 02	0.232093E 02	0.233622E 02
.9950	0.245524E 02	0.247119E 02	0.248710E 02	0.250297E 02	0.251882E 02	0.253464E 02
.9990	0.289084E 02	0.290789E 02	0.292491E 02	0.294189E 02	0.295883E 02	0.297574E 02
.9995	0.307230E 02	0.308978E 02	0.310722E 02	0.312462E 02	0.314198E 02	0.315930E 02
.9999	0.348317E 02	0.350154E 02	0.351987E 02	0.353816E 02	0.355640E 02	0.357460E 02